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ANNOUNCEMENT

OF THE

University of Georgia

For the Session 1912-1913

With a Register of Officers and Students for the Session

1911-1912//3

CHARTERED A. D. 1785

The McGregor Co, Athens Ga.

Danner.

THE UNIVERSITY OF GEORGIA

CALENDAR 1912-13

July 1, Monday:	Opening of the Summer School.
Aug. 3, Saturday:	Close of the Summer School.
September 14:	Meeting of the Faculty.
September 16:	First day of Registration.
September 16-19:	Examinations for Entrance.
September 18:	Opening of the First Term.
November 28:	Thanksgiving Day.
December 21:	Close of the First Term.
January 2:	Opening of the Second Term.
January 2:	Opening of the Cotton School.
January 19:	Birthday of General R. E. Lee.
February 20:	Exercises in commemoration of the 112th Anniversary of the Demosthenian Society and the 93rd Anniversary of the Phi Kappa Society.
February 22:	Washington's Birthday.
March 15:	Close of the Second Term.
March 17:	Opening of the Third Term.
April 19-26:	Encampment of Cadets.
May 20:	Last date for submission of prize essays.
June 9:	Meeting of the Board of Visitors.
June 12:	Annual Session of the Board of Trustees.
June 11-13:	Examinations for entrance.
June 14, Saturday:	8:30 P. M., Sophomore declamation contest.
June 15, Sunday:	11:00 A. M., Baccalaureate Sermon.
June 16, Monday:	10:30 A. M., Exercises of the undergraduates representing the branches of the University. 4:00 P. M., Military exercises and drill. 8:30 P. M., Champion debate between the Phi Kappa and Demosthenian Societies.
June 17, Tuesday:	10:30 A. M., Business meeting of the Alumni Society. 12 M., Oration before the Alumni Society. 4:30 P. M., Junior orations and delivery of Sophomore cup.
June 18, Wednesday:	Commencement Day. Close of the 113th annual session.

BOUND BY THE NATIONAL

HISTORICAL

The University of Georgia was chartered by the General Assembly of the State, January 27, 1785. The charter is entitled "An act for the more full and complete establishment of a public seat of learning in this State," and its preamble, to use the language of a distinguished president of the institution, "would do honor to any legislature, and will stand a monument to the wisdom and patriotism of those who framed and of those who adopted it."

The independence of Georgia, as a State, had just been acknowledged, and, says the preamble, "it should be among the first objects of those who wish well to the national prosperity to encourage and support the principles of religion and morality, and early to place the youth under the forming hand of society, that, by instruction, they may be moulded to the love of virtue and good order."

Founded with the purpose thus indicated, the University was possessed only of "an unproductive and, for the most part, uninhabited tract of land," and it was not until July 6, 1801, that George Walton, Abraham Baldwin, John Milledge, and Hugh Lawson, acting as a committee of the Senatus Academicus, selected the historic site on which the parent institution at Athens now stands. During that year the University was opened.

The general scheme of organization and the course of study, after the fashion of the English colleges of that time, provided for the single collegiate degree of "Bachelor of Arts." Literature, with the so-called disciplinary studies, constituted the entire curriculum. For Science, as it is recognized to-day, no provision was made.

For more than half a century the history of the University was the history of Georgia. Many of those who afterwards added to the distinction of the State in peace and in war received their training here during this period.

But no college thus designed could keep pace with the growth and diffusion of knowledge. The expanding intelligence of the nineteenth century demanded wider areas of culture and knowledge. Science added new fields to human thought. With new knowledge came the impelling force which planted scientific and technical schools throughout the world. In July, 1862, the Congress of the United States granted to each of the States a munificent donation of public lands for the purpose of establishing a college in which science and its application to agriculture and the mechanic arts should be taught. The funds arising from the sale of Georgia's quota of the land scrip were transferred by the State to the Trustees of the University of Georgia, May 1, 1872, and the Trustees at once established the Georgia State College of Agriculture and the Mechanic Arts, as a coördinate department of the institution at Athens. In accordance with the act of Congress, the "leading object" in this college is, "without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts."

After this first step had been taken toward broadening the scope of the University's activity, other developments followed rapidly.

In August, 1867, the Lumpkin Law School, at Athens (incorporated 1859), was merged into and became the Law Department of the University. In October, 1872, the North Georgia Agricultural College became a department of the University through a contract made by the local trustees, and in July, 1873, by arrangement with the local trustees of the Georgia Medical College (founded in 1829), at Augusta, this institution became the Medical Department of the University.

By the Constitution of Georgia (adopted 1877), the appropriation of public funds for education other than "the elementary branches of an English education" was permitted to the University only. The following institutions have been established by legislative enactments as departments or "branches" of the University and placed under general control of its Board of Trustees. Each is maintained in whole or in part by annual appropriations from the State Treasury: The Georgia School of Technology, at Atlanta, established 1885; the Georgia Normal and Industrial College for Girls, at Milledgeville, established 1889; the Georgia Industrial College for Colored Youths, near Savannah, established 1890; and the State Normal School, near Athens, established 1895.

The growth of the University at Athens may be seen from the number of departments which have been established there in recent years: the School of Pharmacy, established in 1903; the Summer School, authorized by an act of the General Assembly in 1897, and put on a permanent foundation by an appropriation of the General Assembly in 1904; the School of Forestry, established in 1906 through the generous aid of Mr. George Foster Peabody.

In the summer of 1906, the Legislature established the Georgia State College of Agriculture and directed the Governor to appoint Trustees charged with its management. At the same session of the Legislature an industrial and agricultural school was established in each of the eleven congressional districts of the State as a branch of this college and under the general supervision of its board of trustees.

By the gradual addition of many different schools and departments the University has been able to incorporate with the liberal training of Franklin College that scientific and technical education necessary to supplement it, and it is now, so far as the Trustees have been able to carry out their plans, "a place where students can be trained for any and every respectable path of life, and where, at the same time, the interests of higher education and science are cared for." Thus the "foundation of the fathers," a simple college with a close curriculum, has grown to be a complex university, planned upon a broad and philosophic system, where literature and science are taught, and liberal and technical education supplied.

SUPPORT

The University is supported partly by taxation of the people of the State, partly by the income from federal grants, and partly by income from private gifts.

The federal government has made three grants for the support of the College of Agriculture and the Mechanic Arts: the original land grant of 1868; the grant of 1887 for the support of agricultural experiment stations in connection with the College of Agriculture; and the supplementary grant of 1890.

In 1895 the State appropriated $29,000 for the erection and equipment of Science Hall. Since that time it has appropriated money for five other buildings, adding greatly to the efficiency of the institution. For maintenance the State pays the sum of $52,500 annually, and has added an annual appropriation of $5,000 for the Summer School. In addition, the sum of $60,000 is appropriated annually for the maintenance of the State College of Agriculture; with $40,000 for Extension Work, $2,500 for the Farmers' Institutes, and $3,000 for the manufacture of hog cholera serum.

The most considerable gifts that have come to the University are:

The original donation of 35,000 acres of public lands by the State.

The donation of 660 acres of land to the University by Governor John Milledge, on which a part of the city of Athens now stands.

The Moore College building, costing $25,000, the gift of the city of Athens.

The Charles F. McCay fund, available about 1975, estimated to amount ultimately to several million dollars.

The Charles McDonald Brown fund of $50,000, the gift of Governor Joseph E. Brown, for aid of students. This fund now amounts to $163,332.23.

The William Terrell fund of $20,000 for the support of a chair of Agricultural Chemistry.

The Library building, costing $50,000, the gift of George Foster Peabody, of New York.

The Alumni fund, amounting to nearly $60,000.

A fund of approximately $30,000, contributed by friends of the University (1906) for the purchase of land for enlarging the campus.

The Denmark fund of $4,000, given by the late Brantley A. Denmark in memory of his son, William Starke Denmark.

A gift of $25,000 from the city of Athens (1908) for the development of the greater campus.

A gift of $40,000 from the Peabody Fund, for the erection of a building, to be known as the "George Peabody Hall," for the School of Education.

A gift of $12,500 from the Phelps-Stokes Fund, for the permanent endowment of a Fellowship.

A gift of $600 by Mr. Preston S. Arkwright ('90) for the same purpose and under the same conditions as those of the Charles McDonald Brown Fund.

GOVERNMENT

By act of the General Assembly, approved August 23, 1889, the government of the University is vested in a Board of Trustees, appointed by the Governor for a term of eight years, and confirmed by the Senate. The Board consists of one member from each Congressional District of the State, four from the State at large, and two from the city of Athens; and the following are ex-officio members: the Governor of Georgia, the Chairman of the Board of Trustees of the North Georgia Agricultural College, the Chairman of the Board of Trustees of the School of Technology, the Chairman of the Board of Directors of the Georgia Normal and Industrial College, the President of the Commissioners of the Industrial College for Colored Youths, the Chairman of the Board of Trustees of the College of Agriculture, the Chairman of the Board of Trustees of the State Normal School, the President of the Board of Directors of the Medical College.

The immediate control and management of each of the departments of the University situated elsewhere than at Athens is entrusted (subject to general control by the University Trustees) to a "Local Board" or "Commission," of which the number of members, mode of appointment, and terms of office vary.

The University Trustees meet in stated session on the Thursday preceding the Commencement Sunday, and at other times, at their pleasure.

The present organization of the Board is as follows:

HIS EXCELLENCY, GOV. JOSEPH M. BROWN, Atlanta, ex-officio.

GEORGE F. GOBER, Marietta,
From the State at Large Term Expires Aug. 13, 1915.

CLARK HOWELL, Atlanta,
From the State at Large Term Expires Aug. 13, 1917.

WILLIAM E. SIMMONS, Lawrenceville,
From the State at Large Term Expires Aug. 13, 1911.

HAMILTON McWHORTER, Athens,
From the State at Large Term Expires Aug. 13, 1913.

SAMUEL B. ADAMS, Savannah,
1st Congressional District Term Expires Aug. 13, 1913.

BYRON B. BOWER, Bainbridge,
2nd Congressional District Term Expires Aug. 13, 1913.

DUDLEY M. HUGHES, Danville,
3rd Congressional District Term Expires Aug. 13, 1913.

HENRY R. GOETCHIUS, Columbus,
4th Congressional District Term Expires Aug. 13, 1911.

HENRY D. McDANIEL, Monroe,
5th Congressional District Term Expires Aug. 13, 1911.

AUGUSTUS O. BACON, Macon,
6th Congressional District Term Expires Aug. 13, 1917.

J. LINDSAY JOHNSON, Rome,
7th Congressional District Term Expires Aug. 13, 1917.

JOHN T. NEWTON, Madison,
8th Congressional District Term Expires Aug. 13, 1911.

HOWARD THOMPSON, Gainesville,
9th Congressional District Term Expires Aug. 13, 1915.

BOWDRE PHINIZY, Augusta,
10th Congressional District Term Expires Aug. 13, 1915.

JOHN W. BENNETT, Waycross,
11th Congressional District Term Expires Aug. 13, 1915.

JAMES WHITE, Athens,
Resident Trustee Term Expires Aug. 13, 1915.

HARRY HODGSON, Athens,
Resident Trustee Term Expires Aug. 13, 1917.

GEORGE FOSTER PEABODY, New York, Life Trustee,
By special act of the General Assembly.

NATHANIEL E. HARRIS, Macon,
Chairman of the Board of Trustees of the School of Technology, Ex-officio.

THEODORE E. ATKINSON, Newnan,
Chairman of the Board of Directors of the Georgia Normal and Industrial College. Ex-officio.

PETER W. MELDRIM, Savannah,
President of the Board of Commissioners of the Industrial College for Colored Youths. Ex-officio.

W. B. McCANTS, Winder,
President of the Board of Trustees of the North Georgia Agricultural College. Ex-officio.

THOMAS J. SHACKELFORD, Athens,
Chairman of the Board of Trustees of the State Normal School. Ex-officio.

JAMES J. CONNER, Cartersville,
Chairman of the Board of Trustees of the College of Agriculture. Ex-officio.

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President of the Board of Directors of the Medical College. Ex-officio.

HENRY D. McDANIEL.........................Chairman.

THOMAS W. REED................Secretary and Treasurer.

PRUDENTIAL COMMITTEE—
Messrs. McWhorter, Hodgson, White.

FINANCE COMMITEE—
Messrs. Simmons, White, Harris.

COMMITTEE ON HONORARY DEGREES—
Messrs. Adams, Conner, and the Chancellor.

COMMITTEE ON BROWN FUND—
Messrs. McWhorter, Adams, Bennett.

PROPERTY COMMITTEE—
Messrs. Gober, Newton, Hodgson.

INSURANCE COMMITTEE—
Messrs. Simmons, McWhorter, Shackelford.

The following appointments were made by the Governor after the adjournment of the Legislature, and have not been confirmed by the Senate:

JOSEPH E. POTTLE, Milledgeville,
From the State at Large.

J. H. McGEHEE, Talbotton,
4th Congressional District.

JOHN A. COBB, Americus,
12th Congressional District.

THE UNIVERSITY AT ATHENS

I. **FRANKLIN COLLEGE.** (The College of Arts).—Established 1801, offering the Degree of Bachelor of Arts, and including:

1. General Courses in the Liberal Arts.
2. Special Courses.

II. **THE GEORGIA STATE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.**—Established 1872, offering the Degree of Bachelor of Science, and including the following:

(a) In the College of Science and Engineering:

1. The General Science Course.
2. The Civil Engineering Course.
3. The Electrical Engineering Course.

(b) In the College of Agriculture:

4. The Full Agricultural Course.
5. The Forest Engineering Course.
6. The One-year Agricultural Course.
7. The Winter Course in Agriculture.
8. The Experiment Station (at Experiment).
9. The Farmers' Institutes.

III. **THE GRADUATE SCHOOL.**—Offering the following Degrees:

1. Master of Arts.
2. Master of Science.
3. Civil Engineer.

IV. **THE LAW DEPARTMENT.**—Offering the degree of Bachelor of Law—A two years' course.

V. **THE UNIVERSITY SUMMER SCHOOL.**—Founded in 1903. Five Weeks' Session, offering courses in

1. Common School Branches.
2. Pedagogy and Related Subjects.
3. High School Studies.
4. Selected Studies.

VI. **THE SCHOOL OF PHARMACY.**—Offering the Degree of Graduate in Pharmacy—A two years' course.

VII. **THE SCHOOL OF EDUCATION.**—Established 1908.

THE UNIVERSITY FACULTY

DAVID CRENSHAW BARROW, LL.D., Chancellor.

ALFRED AKERMAN, A.B., M.F.,
Professor of Forestry.

JOSEPH ALEXANDER ATKINS, (graduate U. S. M. A.), First Lieutenant 16th U. S. Infantry, Commandant of Cadets.

SAMUEL CALDWELL BENEDICT, M.D.,
Dean of the School of Pharmacy, and Professor of Materia Medica.

HOMER VAN VALKENBURGH BLACK, Ph.D.,
Associate Professor of Chemistry.

JAMES CAMAK BLOOMFIELD, M.D.,
Lecturer on Medical Jurisprudence.

WILLIS HENRY BOCOCK, A.M., LL.D.,
Dean of the Graduate School, and Milledge Professor of Ancient Languages.

ROBERT PRESTON BROOKS, B.A. (Oxon),*
Adjunct Professor of Georgia History and Sociology.

DUNCAN BURNET,
Librarian.

WILLIAM MILLS BURSON, D.V.M.,
Professor of Veterinary Science.

JOHN PENDLETON CAMPBELL, Ph.D.,
Professor of Biology.

ANDREW JACKSON COBB, A.B., B.L.,
Lecturer on Constitutional Law and Legal Procedure.

URIAH HARROLD DAVENPORT, B.S.,
Associate Professor of Electrical Engineering.

ROBERT J. H. DeLOACH, A.M.,
Professor of Cotton Industry.

*Absent on leave.

MARION DERELLE DuBOSE, A.M.,
Adjunct Professor of English Language and Teutonic Philology.

JOHN RICHARD FAIN, B.S.,
Professor of Agronomy.

SARAH FRIERSON,
Librarian Emeritus.

THOMAS FITZGERALD GREEN, B.L.,
Professor of Law.

ERNEST LEE GRIGGS, (graduate V. M. I.),
Associate Professor of Civil Engineering and Drawing

LEROY COLLIER HART, B.S.E.E.,
Professor of Farm Science.

LINVILLE LAURENTINE HENDREN, Ph.D.,
Professor of Physics and Astronomy.

WILLIAM DAVIS HOOPER, A.M.,
Professor of Latin.

MILTON PRESTON JARNAGIN, B.S.,
Professor of Animal Husbandry.

JOHN CHRISTIAN KOCH, B.S.C.E.,
Adjunct Professor of Civil Engineering.

JOSEPH LUSTRAT, Bach. ès Lett.,
Professor of Romance Languages.

THOMAS HUBBARD McHATTON, Sc.D.,
Professor of Horticulture.

JOHN HANSON THOMAS McPHERSON, Ph.D.,*
Professor of History and Political Science, and Lecturer on Roman Law.

ROBERT LIGON McWHORTER, A.M.,
Adjunct Professor of Latin and Greek.

ERALBERT TALMADGE MILLER, B.S.C.E.,
Instructor in Physics.

JOHN MORRIS, A.M.,
Professor of English Language and Teutonic Philology.

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*Absent on leave.

SYLVANUS MORRIS, A.M., B.L.,
Dean of the Law Department, and Professor of Law.

ROBERT M. MURPHEY,
Instructor in Animal Husbandry.

ROBERT EMORY PARK, A.M., Litt.D.,
Professor of Rhetoric and English Literature.

WILLIAM OSCAR PAYNE, A.M.,
Associate Professor of History and Political Science.

ROBERT SPENCER POND, Ph.D.,
Instructor in Mathematics.

JOHN MOORE READE, Ph.D.,
Professor of Botany.

HENRY HIRO ROTHE, D.V.M.,
Instructor in Veterinary Science.

SANDFORD MEDDICK SALYER, A.B.,
Adjunct Professor of Rhetoric and English Literature.

STEADMAN VINCENT SANFORD, A.B.,
Junior Professor of Rhetoric and English Literature.

CHARLES MERCER SNELLING, A.M., Sc.D.,
Dean of the University, and Professor of Mathematics.

ANDREW McNAIRN SOULE, B.S.A., Sc.D.,
President of the State College of Agriculture and the Mechanic Arts, and Dean of the College of Agriculture.

ROSWELL POWELL STEPHENS, Ph.D.,
Associate Professor of Mathematics.

JOSEPH SPENCER STEWART, A.M.,
Professor of Secondary Education.

CHARLES MORTON STRAHAN, C. and M.E.,
Professor of Civil Engineering.

CORNELIUS AUGUSTUS WELLS, M.S.,
Instructor in Chemistry.

HENRY CLAY WHITE, Ph.D., Sc.D., D.C.L., LL.D.,
Professor of Chemistry, and Terrell Professor of Agricultural Chemistry.

ROBERT CUMMING WILSON, Ph.G.,
Professor of Pharmacy.

THOMAS JACKSON WOOFTER, A.M., Ph.D.,
Professor of Philosophy and Education, and Superintendent of the Summer School.

WILLIAM ARCHER WORSHAM, JR., A.M.,
Professor of Agricultural Chemistry.

WILLIAM TELFORD TURK, A.B.,
Tutor in Romance Languages.

HOSEA ABIT NIX, A.B.,
Tutor in Rhetoric and English Literature.

CHESTER HORACE McLEMORE, B.S.,
Tutor in Animal Husbandry.

HOWELL BENAJAH PEACOCK, B.S.,
Tutor in Philosophy and Education.

Student Assistants.

W. L. SAVELL, Chemistry and Physics.

R. A. LAIRD, Physics.

C. D. FLANIGEN, JR., Civil Engineering.

R. T. GOODWYN, Civil Engineering.

P. L. HUDSON, Biology.

DEPARTMENT OF AGRICULTURAL EXTENSION.

JOHN L. BISHOP, Adjunct Professor, Animal Husbandry.

JAMES PHILANDER CAMPBELL (In coöperation with U. S. Department of Agriculture), Professor, Schools.

LEONIDAS MYERS CARTER, Adjunct Professor, Soils.

MARY E. CRESWELL, Instructor, Schools.

GUY WITSOTZKEY FIROR, B.S., M.S., Secretary of Extension Department, Horticulture.

JOHN WILLIAM FIROR, B.S., Instructor in Horticulture.

JAMES WILLIAM HART, (In coöperation with U. S. Department of Agriculture), Professor, Dairy Husbandry.

ROBERT S. HOLLINGSHEAD, A.B., Instructor, Soils.

L. L. JONES, Instructor, Poultry Husbandry.

DAVID D. LONG, B.S.A., Adjunct Professor, Soils.

LOY EDMUND RAST, B.S., Instructor, Agronomy.

JOHN E. TURLINGTON, B.S.A., M.S., Adjunct Professor, Agronomy.

PEARL MORRIS, Clerk and Stenographer.

VERA FRANCES MORRIS, Assistant Stenographer.

Special Lecturers.

ERNEST LEE WORSHAM, B.S., Entomology.

BENJAMIN ALBERT CRANE, B.S., Cotton Grading.

ROBERT HATTON LOVEJOY, B.S., B.L., Forest Law.

LIBRARY STAFF.

LOUIE HULL SMITH, Librarian of the College of Agriculture.

MILDRED RUTHERFORD MELL, First Assistant.

JESSIE M. HUTCHINSON, Second Assistant.

DANA COLLINS BELSER, Student Assistant.

JOSEPH HANCOCK MARSHBURN, Student Assistant.

POPE FREEMAN BROCK, Student Assistant.

AUGUSTUS O. B. SPARKS, Student Assistant.

OTHER OFFICERS.

THOMAS WALTER REED, A.M., Registrar.

M. ESTELLE PORTER, B.Lit., Secretary to the Chancellor.

OLIVE BELL, Mailing Clerk to the College of Agriculture.

ETHEL REESE, Secretary to the President.

MAY EPPS, Assistant Stenographer.

PHARES OBADIAH VANATTER, Superintendent of Field Demonstration.

AMBROSE PENN WINSTON, Foreman of the College Farm.

FACULTY COMMITTEES FOR 1911-12.

Absences.—Payne, Stephens, Black, DuBose, Commandant, Clerk to attend.

Alumni Bulletin.—Strahan, S. Morris, DeLoach, McWhorter.

Alumni Catalogue.—Reed, DuBose, McWhorter, Worsham, Black, DeLoach, Miller.

Alumni Positions.—Park, Strahan, DeLoach, Secretary H. A. Nix.

Athletics.—J. Morris, Jarnagin, Hendren.

Coördination with Medical College.—White, Campbell, Jarnagin, Benedict, Davenport, Hendren.

Courses as Given.—Campbell, J. Morris, Strahan.

Curriculum.—Hooper, Bocock, White, Snelling, Woofter, Soule, J. Morris, Campbell.

Delinquent Students.—Snelling, Soule, Bocock, Park, Strahan, J. Morris.

Entrance Examinations and Accredited Schools.—J. Morris, Stewart, Hooper, Bocock, Fain, Sanford, Payne, Lustrat, Reade, Hendren, Stephens, Salyer, McWhorter.

Extension.—Soule, Stewart, Woofter, Firor, Strahan, Phil Campbell.

Forms and Ceremonies.—Commandant, S. Morris, Sanford, McHatton, Pond.

Graduate Courses.—Bocock, Fain, Park, Campbell, Lustrat, Snelling, Strahan, Soule.

Library.—Burnet.

Nature Study Bureau.—Akerman, DeLoach, Reade, Fain, Woofter.

Night Meetings.—Woofter, McHatton, Reade, Pond.

Promotion and Publicity.—Stewart, Akerman, Davenport, Hart.

Publications.—Salyer, Reade, McWhorter, Sanford.

Register and Announcement.—Hooper, Stewart, Wilson, Salyer, Stephens, Jarnagin.

Registrar.—Reed.

Rhodes Scholarship.—Bocock, Chancellor.

Schedule.—Lustrat, Stephens, Fain.

Self-Help.—Fain, Sanford, DeLoach, Snelling.

Social Life of Students.—McHatton, Bocock, Hendren, Stephens, Snelling.

Secretary.—Hooper.

Physical Director.—Sanford.

Superintendent of Buildings and Grounds.—Griggs.

BUILDINGS AND GROUNDS

The University Campus comprises an area of 132 acres located in the heart of the city of Athens. In addition to this and contiguous to it lies the University Farm, extending from Lumpkin Street to the Oconee River, comprising 830 acres.

The buildings on the University Campus are:

1. **Old College** (1801, remodeled 1908). Dormitory, accommodating fifty students.

2. **Agricultural Hall** (formerly Philosophical Hall, 1807). At present unoccupied.

3. **New College** (1823, rebuilt in 1832, after destruction by fire). Dormitory, accommodating seventy students. The first floor is occupied by the Armory and the offices of the Commandant of Cadets.

4. **Demosthenian Hall** (1824). The Demosthenian Literary Society.

5. **The Chapel** (1831). Used for morning prayers and also as an assembly hall.

6. **Phi Kappa Hall** (1834). The Phi Kappa Literary Society.

7. **Moore College** (1874). The Schools of Physics, Civil Engineering, and Electrical Engineering.

8. **Denmark Hall** (1901). Coöperative Dining Hall, accommodating two hundred students.

9. **Candler Hall** (1901). Dormitory, accommodating eighty-four students.

10. **Academic Building.** Remodeled (1904) by combining the old Library (1859), with the Ivy Building (1831). Administrative offices, and the Schools of Mathematics, Greek, Latin, History, Rhetoric and English Literature, English Language and Teutonic Philology, Romance Languages, Philosophy and Education, Secondary Education, and Law.

11. **The Library** (1903). This building was the gift of Mr. George Foster Peabody, of New York. It contains a fire-proof stack room, large enough to store 100,000 books, and in addition the offices of the librarian and assistants, cataloguing room, reference room, general reading room, and lecture rooms.

12. **Terrell Hall** (1904). Built to replace "Science Hall," totally destroyed by fire in 1903, and named in honor of Dr. William Terrell, of Hancock County, Georgia, who, in 1854, endowed the professorship of agricultural chemistry in the University. The Schools of Chemistry and Pharmacy.

13. **LeConte Hall** (1905). Named in honor of Dr. John LeConte, Professor of Physics, 1846-1855, and Dr. Joseph LeConte, Professor of Geology, 1852-1856. The Schools of Biology and Botany.

14. **Crawford W. Long Infirmary** (1907). Named in honor of Dr. Crawford W. Long, of the class of 1835, the discoverer of Anesthesia.

15. **The New Agricultural Hall** (1907). The State College of Agriculture.

In addition to the buildings named above the recently acquired extension of the campus contains over fifty cottages, of which as many as are needed are rented to students for use as dormitories.

EQUIPMENT.

The Chemical Laboratories are in Terrell Hall. This building is occupied exclusively by the Schools of Chemistry and Pharmacy. The laboratory for beginners in Chemistry is on the ground floor, equipped with desks and lockers for 110 students. Two laboratories for more advanced students, accommodating respectively 60 and 24 students, the laboratory for Physical Chemistry, accommodating 24 students, and three smaller laboratories for research, are on the third floor. There are three lecture rooms, one (seating capacity 32) on the ground floor, one (seating capacity 150) on the second floor, and one (seating capacity 80) on the third floor. Offices, store rooms, balance rooms, museum, and apparatus rooms, private laboratories, a departmental library, and other accommodations for the School of Chemistry, are provided in the building. The laboratories are well lighted and ventilated, and conveniently supplied with gas, water, electricity, and fume closets. A considerable supply of modern apparatus and of chemicals is now on hand, and additions are made annually to the equipment.

The Physical Laboratories are located in Moore College. The laboratories for beginners are on the first floor, and consist of two rooms, 35x35 feet each, with desks and tables for thirty students. The equipment of these laboratories has been greatly increased by the recent purchase of modern apparatus for experimental work in Mechanics, Sound, Heat, and Light. The laboratory for electrical measurements is on the first floor, and is 20x45 feet. It is supplied with alternating and three-phase, 60-cycle, 120-volt currents from the city mains, and with alternating and direct currents from dynamos and storage batteries. The equipment of this laboratory is modern. Two rooms, 35x35 and 20x35 respectively, are well filled with illustrative and experimental apparatus. Two large lecture rooms, with seating capacities for forty and eighty students, respectively, are situated on the second floor. All laboratories and lecture rooms are supplied with gas, water, and direct, alternating, and polyphase electric currents.

For description of the shops and the Dynamo Laboratory, see Electrical Engineering Laboratories, below.

The Astronomical Observatory on the roof of Moore College, consists of a room 10x10 feet with a revolving dome, in which is a 5½-inch telescope, equatorially mounted and driven by clockwork. The Observatory is also equipped with two sextants, an alt-azimuth instrument, a celestial globe, and several good star maps and charts.

The Civil Engineering Laboratory in Moore College, includes a drawing-room (50x35), accommodating sixty students, instrument room, and model room. The stock of models, charts, diagrams, and other illustrative materials is large and complete; the engineering instruments are of the most approved makes, and include all those necessary for ordinary engineering operations; a large Riehle testing-machine is in place for testing the strength of materials.

The Biological Laboratories are in LeConte Hall. The building contains two lecture rooms, a museum, and special laboratories for Zoölogy, Anatomy, Bacteriology, Histology, Entomology, and Animal Physiology, in addition to smaller rooms for special purposes.

The Botanical Laboratories are on the second floor of LeConte Hall. Here are provided a general laboratory, well lighted, commodious, and furnished for the work of beginners; a laboratory for Plant Pathology and Bacteriology, equipped with culture room, sterilizers, incubator, microtomes, and other special apparatus; a laboratory for Plant Physiology and Photography, which is a glass house on the roof provided with special physiological apparatus and equipped for photo-micrography; an Herbarium; a lecture room, and a small store room.

The Electrical Engineering Laboratories.—The Dynamo Laboratory of the Electrical Engineering Department is in the basement of the Moore College, and is equipped with a 10 H. P. steam engine and boiler; an 8 H. P. gas engine; a 10 H. P. 220-volt, three-phase, electric motor; a 7½ K. W., double current generator; a 5 K. W. direct current generator, all belted to a common shaft; two Thompson-Houston arc light generators; one Brust arc light generator; one Foos "Electric Special" gasoline engine of 4 H. P. output, operating a 3 K. W. direct current generator; one 2 H. P. 110-volt, three-phase induction motor; one 1 H. P. 110-volt, three-phase induction motor; one 1 H. P. gas engine; two small experimental dynamos; one small self-exciting alternator; one 15 H. P., series, constant potential, railway motor; 12 chloride accumulators; a plug switchboard to which all laboratory and lecture desk leads are connected; two lamp banks of fifty lamps each; one water cooled Prony Brake of 10 H. P. capacity; stationary and portable ammeters, voltmeters, and wattmeters of various types; one tachometer and several speed counters; two D. C. arc lamps; one A. C. flaming arc lamp; water rheostats, resistance frames, etc. Three-phase 110- and 220-volt circuits from the city mains are available at all times.

The workshop on the second floor contains wood and metal working lathes, rip and cut-off saw, milling machine, grindstone, emery wheel, etc., in addition to a full equipment of bench and shop tools for ten men. This machinery is driven by a three-phase induction motor from the city mains.

The water power plants of the Athens Railway and Electric Co., at Mitchell's Bridge and Barnett Shoals, their steam turbine plant and substation in the city, their car barn and shop, and the general system of distribution and utilization are, through the courtesy of the Superintendent, available for study and inspection.

The Agricultural Laboratories are fully described under the statement of the College of Agriculture.

The Pharmaceutical Laboratories are in Terrell Hall, and are supplied with all necessary equipment for giving thorough instruction in Pharmacy.

ADMISSION

GENERAL REGULATIONS.

Students are admitted to the University either on satisfactory examination in the required subjects, or on the formal certificate of the Principal of an "Accredited High School," except that students from other colleges and universities and adult special students are admitted in accordance with regulations stated on pages 24 and 25.

Applicants for admission to Franklin College or the State College of Agriculture and the Mechanic Arts must be not less than fifteen years of age.

Applicants for admission to the Law Department, the School of Pharmacy, or the Graduate School must be not less than eighteen years of age.

Certificates of good character should be presented by all applicants.

All applicants must have been successfully vaccinated.

Admission by Examination. Examinations are set at the University in June and September of each year. These are in writing and two hours are allowed to each unit upon which examination is required. Examinations will be offered in each of the entrance subjects daily on June 11, 12, 13, and on September 16, 17, 18, and 19.

Suggestive examination questions will be sent to all the accredited schools in May on request. To a teacher of a high school who wishes to hold the June entrance examination, but is not connected with an accredited school, a set of examination questions may be sent on application.

Written examinations are required of all except "special students," and those presenting proper certificates, as described below.

Admission by Certificate. Students will be admitted on certificate who have completed a full course in one of the officially accredited secondary schools of Georgia, or on presenting the prescribed certificate from a high school officially accredited by the State University of the State in which the school is located.

The certificate must come from the principal or superintendent and not the applicant, indicating in each case what subjects have been studied, the time spent on each, the amount covered, and the grade received. Forms for such certificates, prepared by the University, must be used, and are furnished the principals of all the accredited schools of this state annually, or may be obtained by the applicant on request. These should be filled out by the principal of the institution to which the pupil wishes to go. A diploma or note of commendation will not be accepted in lieu of the certificate. The University will require tests of applicants leaving the secondary school before graduation.

Students whose certificates do not cover all the units necessary for entrance must supply the deficiency by written examinations. It is, therefore, necessary that the principals forward the certificates as soon as possible after receiving notice from the pupil that he intends entering the University. The committee will then note omissions and notify the applicant what examinations will be required. Application should be made to the principal by the student as soon after graduation as possible, when access to the records is easily obtained. It is requested that all certificates be filed by the first of July, or as early thereafter as possible.

Certificates will not be accepted which cover less than one year's attendance in the school issuing the certificate. Before certifying to the work done in his school, the principal should satisfy himself of the previous high school training of the pupil, if a part was done in another school. Subjects in which an examination has been passed for admission to the school, or for which regular certificates from recognized schools were received, may be included in the certificate. Work done in the grammar grades or high school reviews or such work cannot count as units of high school training.

At the end of the first term notice will be sent to the principal showing the college standing of all his students who are admitted by certificate to the colleges which have adopted the University system.

CONDITIONED STUDENTS.

Students who, by examination at the University or by certificates from accredited schools, can secure credit for eleven of the units required for entrance, will, for the session 1912-13, be admitted, conditioned on the remaining units, except that students from a four-year school must offer twelve units.

After that session, a minimum of twelve units will be required for entrance.

Entrance conditions must be removed before the student enters the Junior class, by passing off the necessary units as the result of private study, or by doing additional work offered by the University; but college work thus offered will not be counted toward a degree. Should a student admitted under these conditions desire to take some other course of study than a curriculum leading to a degree, his choice of studies must have the approval of the Dean and of the heads of the departments concerned.

Students in the Law Department who are applicants for the degree of Bachelor of Law must remove entrance conditions before entering the Senior class.

SPECIAL STUDENTS.

Sometimes a person of mature years, not a candidate for a degree, but with a definite aim or for purposes of general culture, desires to take a course in the University. Such special students may be admitted under the following conditions: (a) they must be not less than twenty years of age; (b) they must give evidence of adequate preparation for the courses sought, to the individual professors in charge; (c) their names are printed separately in the catalogue. Students not less than eighteen years of age may be accepted as special students in the School of Forestry, upon the recommendation of the professor in charge.

Should a student admitted as a special student become a candidate for a degree, he will be required to satisfy the full fourteen units of entrance requirements.

SHORT COURSES.

Students taking the short courses in Agriculture, Horticulture, and Dairying are exempt from the entrance requirements.

These courses include the one year Agricultural course, the short Cotton School course, and similar courses, that may be offered from time to time.

ADMISSION TO ADVANCED STANDING.

Students bringing proper certificates of work and standing from the registrars of approved colleges will be admitted without examination, provided they enter not later than the beginning of the Senior year. In determining their position in the University, however, the value of the work done at such college, as well as the work offered for entrance to that college, will be measured by the University standards.

Students from academies or other advanced secondary schools will not be admitted on certificate beyond the beginning of the Sophomore class. Work offered in fulfillment of the entrance requirements may not be counted for advanced standing. A student admitted to advanced standing with a low record at previous institutions may be required to repeat a course in the discretion of the professor.

ENTRANCE REQUIREMENTS.

The requirements for admission are stated in terms of units.

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. This statement is designed to afford a standard of measurement for work done in secondary schools. It takes the four-year high school course as a basis and assumes that the length of the school year will be approximately thirty-six weeks, that a period is at least forty minutes, and that the study is pursued for four or five periods a week; but, under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than one hundred and twenty sixty-minute hours, or their equivalent. Schools organized on a different basis can, nevertheless, estimate their work in terms of this unit. Less than forty minutes for recitation will reduce the unit value. The subject may cover more than one year according to the pleasure of the teacher in arranging courses. The time element counts on the certificate as well as the quantity of work. As a general rule, four units a year is as much as the average pupil can prepare adequately at one time.

Each subject named below is valued at a specific number of units if the proper time has been devoted to its preparation, but its value cannot rise above that number of units although additional time may have been given to it.

A total of fourteen units will be required of Freshmen for full admission. Not more than four units will be accepted in any one subject.

Requirements for the Bachelor of Arts Course.

	Units.
English	3
Algebra	1½
Geometry	1
Ancient History, 1 English History, 1 American History and Civics, 1 Modern History, 1	2
Latin	3
Greek*	1¾
or	
French*	2
or	
German*	2

Not more than two units from the following:

Solid Geometry	½
Physical Geography	1
Drawing	1
Physics	1
Physiology	½
Botany	1
Zoölogy	1
Chemistry	1
Spanish	1
Italian	1
Additional History, Mathematics, English, or Foreign Language, each	1

*In case French is offered instead of Greek, the applicant may offer two units of French. He will then be required to take French 3 and 4, and, in his Junior and Senior years, German 5 and 6, in addition to the five courses required in each of those years.

In case German is offered instead of Greek, the applicant may offer two units of German. He will then be required to take German 3 and 4, and, in his Junior and Senior years, French 5 and 6, in addition to the five courses required in each of those years.

Requirements for the Bachelor of Science Courses.

	Units.
English	3
Algebra	1½
Geometry	1

Ancient History, 1 English History, 1 American History and Civics, 1 Modern History, 1	2

Not more than six and one-half units from the following:

Solid Geometry	½
Foreign Language*	2
Agriculture**	1
Physical Geography	1
Drawing	1
Physics	1
Physiology	½
Botany	1
Zoölogy	1
Chemistry	1
Additional History, Mathematics, English, or Foreign Language, each	1

*Three units of Latin are required, if the study is to be pursued in the University.

**For the degree of Bachelor of Science in Agriculture three units of Agriculture may be allowed.

Manual Training and Shop Work, one unit each, may be offered for entrance to the courses leading to degrees in Engineering and Agriculture.

The following description serves to indicate the amount of preparation expected for entrance in each of the subjects named above.

ENGLISH.

Grammar and Rhetoric, 1 unit.

Reading and Practice English Classics and Composition, 1 unit.

Careful Study and Composition, 1 unit.

History of the English Language and Literature (4th year), ½ unit.

Required Classics for 1912-13.—The selections of the National Committee on uniform English Classics are grouped below for the guidance of English teachers in Georgia schools according to years, so that there may be more uniformity in study. Groups I, II, III, IV, V, are for "Reading and Practice," and ten selections, two from each, or one from I and three from II, a total of ten, indicated by the letters (a) (b) (c), are the minimum requirement for one unit. The teacher will use more if possible. The four divisions in the fourth year are for "careful study," and constitute one unit.

First Year.

Group I. (Select one or two).

Homer, (a) Odyssey (selections from standard English translations); (b) Iliad (selections); Vergil, (c) Aeneid (selections); (d) Old Testament Narratives.

Group II. (Select one).

Shakespeare, (a) Midsummer Night's Dream; (b) As You Like It.

Group III. (Select one).

Scott, (a) Ivanhoe, or (b) Quentin Durward; Stevenson, (c) Treasure Island; De Foe, (d) Robinson Crusoe. Part I.

Group IV. (Select one).

Arnold, Macaulay, (a) Sohrab and Rustum, and Lays of Ancient Rome; Poe, Longfellow, and Whittier, (b) The Raven, Courtship of Miles Standish, and Snowbound; Scott, Coleridge, and Lowell, (d) Rhyme of the Ancient Mariner, and The Vision of Sir Launfal.

Suggestions for supplementary reading: Ballads, fables; Southern short stories selected from Page, Poe, Harris, Allen, and Goulding.

Second Year.

Note.—One unit as (a) should be studied from each of the four groups during the second year. More may be read.

Group II.

Shakespeare, (a) The Merchant of Venice; (b) Twelfth Night.

Group III.

Eliot, (a) Silas Marner; Goldsmith, (b) The Vicar of Wakefield; Gaskell, (c) Cranford.

Group IV.

Irving, (a) Sketch Book; Stevenson, (b) An Inland Voyage Travels with a Donkey; Parkman, (c) Oregon Trail; Bunyan, (d) Pilgrim's Progress, Part I; Franklin, (e) Autobiography.

Group V.

Palgrave's (a) Golden Treasury (1st series), Books II and III, and special attention to Dryden, Collins, Gray, Cowper, and Burns; Goldsmith, (b) The Deserted Village; Gray, (e) The Elegy; Browning, (d) Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Incident of the French Camp, The Boy and the Angel, One More Work, Herve Reil, Pheidippides.

Third Year.

One unit as (a) should be studied from each group in a four year high school. A three year high school may take fourth year selections for careful study.

Group II.

Shakespeare, (a) Julius Caesar; (b) Henry V.

Group III.

Dickens, (a) A Tale of Two Cities, or (b) David Copperfield; Hawthorne, (c) House of Seven Gables.

Group IV.

Lincoln, (a) Selections, including the two inaugurals, the speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter of Horace Greely, along with a brief memoir or estimate; Thackeray, (b) English Humorists; Macaulay, (c) Lord Clive and Warren Hastings; Addison, (d) Sir Roger de Coverley Papers.

Group V.

Palgrave's (a) Golden Treasury (1st series), Book IV, with special attention to Wordsworth, Keats, and Shelly; Tennyson, (b) Gareth and Lynnette, Lancelot and Elaine, and the Passing of Arthur; Byron, (c) Childe Harold, canto IV, and The Prisoner of Chillon.

Fourth Year.

(Required for "Careful Study," one each from the four groups).

Study.—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. For this close reading are provided a play, a group of poems, an oration, and an essay, as follows:

I. Burke, (a) Speech on Conciliation, or Washington's Farewell Address, and (b) Webster's Bunker Hill Oration.

II. Milton, (a) Comus, L'Allegro, and Il Penseroso.

III. Macaulay, (a) Life of Johnson, or Carlyle, (b) Essay on Burns.

IV. Shakespeare, (a) Macbeth.

The teacher may give for additional reading either Thackeray, Henry Esmond, or Thoreau, Walden, or Huxley's Autobiography, and selections from lay sermons, including: Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk, or any of the former groups not previously read.

For complete outline of English course for high schools, see Bulletin number 170.

MATHEMATICS.

High School Algebra (1½ units).—Fundamental operations, factors, highest common divisors, least common multiples, fractions, negative quantities and the interpretation of negative results, simple equations in one or more unknowns, ratio and proportion, irrational numbers and radicals, theory of indices, quadratic equations with problems involving the same, graphical representation, simultaneous quadratic equations, binomial theorem with positive integral exponents, arithmetical and geometrical progressions. The subjects are given in any standard high school Algebra. Arithmetic should be reviewed after the completion of the course in Algebra and should include the metric system.

Plane Geometry (1 unit).—Demonstrations, constructions and solutions of numerical problems, as given in any standard Plane Gometry.

Solid Geometry (½ unit).—A course in lines and planes in space, polyhedrons, cylinders, cones, and the sphere. The course must include the theorems and exercises given in the standard texts.

HISTORY.

a **Ancient History** (1 unit).—Special attention to Greek and Roman history, but including also a short introductory study of the more ancient nations and the chief events of the early middle ages down to the death of Charles the Great (814 A.D.).

b **European History** from the death of Charles the Great to the present time (1 unit).

c **English History** (1 unit).

d **American History and Civil Government** (1 unit).—The study of a more recent High School text and not a Grammar School History.

All applicants should offer *a*.

LATIN.

Elementary Latin Book (1 unit).—The student should acquire during this year a working vocabulary of several hundred words, a complete mastery of ordinary forms, the simpler principles of Latin syntax, and correct habits of translation and composition.

Caesar (1 unit).—Any four books of the Gallic War, with study of the grammar and prose composition based upon the text read. Equivalent reading in other standard authors allowed.

Cicero (1 unit).—Any six orations selected from the four against Catiline, for Archias, for the Manilian Law, for Marcellus. Prose composition based upon the text read, with the completion of Latin Grammar.

Vergil (1 unit).—Six books of the Aeneid. These may be offered instead of the unit in Cicero, or the unit may be divided between the two authors.

GREEK.

Greek (1¾ units).—1. Attic prose forms (including -μι verbs), and elementary syntax, as treated in any good book for beginners, with the principal parts of about one hundred common irregular verbs. 2. Xenophon's Anabasis, I.-III.

Note: Ample provision is made at the University for students whose preparation in Greek is deficient. These classes must be taken by candidates for the degree of Bachelor of Arts who have had no instruction in Greek (unless German and French are to be substituted for Greek), and by students whose preparation has been lacking in thoroughness and accuracy, before proceeding to the regular requirements of the curriculum. Candidates for this degree are therefore urged to secure before entering college full preparation for the regular Freshman class in Greek (course 3). Summer School courses may also be taken to advantage.

GERMAN.

Grammar and Pronunciation (1 unit).—The exercises in any standard grammar, as far as through the Adjective, should be parsed, written, and corrected. The student should translate (preferably in writing) 100 pages of a very easy graduated prose. Correct pronunciation must be rigidly insisted upon at all times, and practice in speaking should form a part of each lesson.

Grammar and Translation (1 unit).—Thorough grammatical drill continued through the Passive Voice, reading of three elementary texts, averaging 35 pages each, and constant practice in speaking.

FRENCH.

Grammar and Pronunciation (1 unit).—The course should include careful drill in pronunciation; constant drill in easy conversational French; systematic and practical, rather than theoretical study of the most elementary rules of grammar, with stress on the inflection of regular and irregular verbs, the forms, position, and use of conjunctive and disjunctive personal pronouns; simple exercises of translation of English into French, with the rules of grammar and syntax explained in the class as a basis; the reading of from 100 to 175 duodecimo pages of graduated text; writing in French from dictation; frequent talks in French on easy and simple subjects, to accustom the ear of the student to the sound of the language.

Translation and Conversation (1 unit).—The second year's work should comprise a thorough and complete study of grammar and syntax, with stress on the use of tenses and especially of the Imperfect of the Indicative, the Narrative past, and the Subjunctive; constant exercises of translation from English into French; the writing in French of letters and easy narration, the latter based on texts read in the class; the reading of 400 pages of easy modern prose; and a continuation of conversational French and of talks in French.

SPANISH.

Work similar in amount and character to that outlined above for French, and equivalent to Spanish I.

PHYSICAL GEOGRAPHY.

(1 unit).—The equivalent of work as presented in recent texts, with about forty laboratory lessons.

PHYSICS.

(1 unit).—Study of a recent standard text-book, with about forty experiments by the teacher and pupils, with laboratory manual. Emphasis should be laid on the quality and not the amount of laboratory work.

BOTANY.

(1 unit).—The course should be based on one of the modern High School text-books. Special emphasis should be laid on the laboratory work, which should consist of work in both the structure and physiology of plants.

CHEMISTRY.

(1 unit).—Study of a recent text-book, with laboratory manual. Laboratory work is an essential part of the admission requirement.

AGRICULTURE.

(1 unit).—The equivalent of the course in L. H. Bailey's "Principles of Agriculture," with suggested experiments.

PHYSIOLOGY.

(½ unit).—Study of a recent standard text-book with some laboratory work.

BIOLOGY.

(1 unit).—A study of a recent text containing the essentials of Botany, Zoölogy, Human Physiology, or a half year's course in either Botany or Zoölogy, and a half year's course in Human Physiology.

Note.—Laboratory work is required for unit credit in any science.

DRAWING.

(1 unit).—A year's thorough work in Freehand Drawing, or in Mechanical Drawing, or in a combination of the two. Drawings must be presented by students desiring credit in this subject for entrance.

REGULATIONS GOVERNING THE ACCREDITING OF SCHOOLS.

1. High schools, academies, seminaries and other secondary schools desiring accredited relations with the University of Georgia and associated colleges, should make formal application to the Professor of Secondary Education, Athens, Ga. Memoranda blanks will be furnished to the superintendent or principal of the school seeking credit. Upon the blanks will be indicated the number of teachers and their qualifications, the courses of study in the different branches, and such information in regard to apparatus, libraries, laboratories, program, etc., as may serve to give a fair idea of the general efficiency of the school.

2. No school will be accredited before the Professor of Secondary Education, or some person designated by him, shall have visited it and shall have rendered a report concerning its equipment and work. The authorities of the school may also be requested to submit to him specimen examination papers prepared by students pursuing the high school subjects in which credit is desired. Pupils' note-books should also be open to inspection.

3. On the school being accepted, the authorities will be duly notified, and the name of the school will be entered, under the proper group, on the list of accredited schools. The list will be published in the annual catalogue of the University, in the annual report of the State School Commissioner, and in the catalogue of such other institutions as may accept the University list of schools.

4. To be accredited at all, any school must prepare its graduates for the Freshman class in English, History, Algebra, and Plane Geometry. Complete accredited relation includes enough other subjects to admit graduates to the University without conditions. To be admitted without conditions 14 units will be required of all students.

Among the fundamental conditions determining the credit and the group to which a school will belong may be mentioned the following:

(a) The number of pupils ready for high school training.
(b) Moral and financial support of the school.
(c) Buildings and equipment.
(d) Number and training of teachers, and
(e) Efficiency of the elementary school.
(f) The number of recitations a day for pupils and teachers.

GROUPS OF ACCREDITED SCHOOLS.

Schools will be listed hereafter in the annual catalogue under the following groups, showing in each case the exact credit:

Group I (Senior or Four-Year Schools), is composed of Secondary Schools preparing students in English 3, History 2, Algebra 1.5, Plane Geometry 1, Latin 3 or a modern language 2 or two foreign languages 4, and enough electives to make 14 units. No school will be placed in this group that cannot gain credit for at least 14 units for its graduates.

Group II (Usually Middle or Three-Year Schools), is composed of secondary schools providing satisfactory instruction in English 3, History 2, Algebra 1.5, Plane Geometry 1, and enough electives to make 11 units, but not making as many as 14 units. Graduates of these schools will be admitted to the University, but they will be required to pass off the additional units to make 14, by examination or otherwise.

Group III (Usually Middle Schools), includes secondary schools providing satisfactory instruction in English 3, History 2, Algebra 1.5, and Plane Geometry 1, with a minimum of 9 units, but not receiving credit for 11 units of work. Graduates of these schools will be required to pass examinations on enough units to bring their credits up to 11 before being allowed to register in the University, and must pass off the remaining number necessary to make 14 units, as required for the several courses named in the annual catalogue.

For full information concerning the accrediting of schools, see Bulletin Number 111, entitled "Handbook for the Secondary Schools of Georgia."

In another part of this catalogue will be found the list of accredited schools for 1912, with grouping and credits allowed.

EXPENSES.

Residents of Georgia pay no tuition fees. Students who are residents of other states are charged a tuition fee of $50.00 per annum. The following estimate of expenses includes all necessary items except clothing and railroad fare.

Expenses of Students when Rooming in a Dormitory and Boarding at Denmark Dining Hall.

Matriculation fee (paid on entrance)	$10.00
Library fee (paid on entrance)	5.00
Initiation fee to literary society (paid on entrance)	2.00
Board (paid monthly in advance, $10.00)	90.00
Books and stationery (estimated)	10.00

Furnishing room in Dormitory (estimated)	6.00
Laundry (estimated at $1.25 per month)	11.25
Room rent, lights and attendance ($2.50 per month)	22.50
Fuel (estimated)	10.00
Total necessary expenses per year	$166.75

If a student rents a furnished room in a private family, the landlord keeps the room in order and generally furnishes lights and bath, but not fuel. The charges for private rooms vary with the character of the furnishings from $5.00 to $12.00 a month for two occupants. This is a very popular way of lodging. The students board at the Denmark Dining Hall. Under this plan the other expenses are the same as in the above estimates. The difference in room rent will bring the total expenses to about $200.00 for the year.

A deposit fee of $2.50, to cover damages, is required of all students rooming in the dormitory or boarding at the Dining Hall.

From the above statements it is seen that it costs about $50.00 for a new student to matriculate and meet his first month's expenses; after that, his fixed charges will be confined to his monthly living expenses.

Each member of the Corps of Cadets is required to purchase a uniform and accoutrements within one month of the opening of the session. The cost of these is $15.55.

For spring use, white duck trousers, jeans trousers and blue shirt, leggings, and hat are required, costing about $4.50.

Students in the One Year Agricultural Course, the Winter Course, and the full Agricultural Course are exempt from matriculation and library fees.

The figures given above are for the first year. They are based upon the actual experiences of a large number of students. Expenses are frequently brought under the estimate by strict economy. Second-hand books can be purchased at low rates at the Students' Supply Store, and elsewhere, and it is often possible to purchase at greatly reduced prices uniforms which have been used but little. In these and other ways money can be saved.

SPECIAL FEES.

Special fees, sufficient to cover the material consumed, are attached to the following courses:

Chemistry 1, 2, 3, 5, 6, 7,	$2.50
Chemistry 8, 9,	$10.00
Biological Laboratory	$2.50 to $3.50
Physical Laboratory	$3.00
Botanical Laboratory	$2.50 to $3.50

INCIDENTAL EXPENSES.

The incidental expenses of a student are what he makes them, and parents are urged to take into their own hands the control of a matter which no college regulations can successfully reach.

BOARD AND LODGING.

Excellent table board on the coöperative plan can be had in the Denmark Dining Hall at $10.00 per month; elsewhere at $12.00 per month and upwards. In the dormitories the rooms contain bed-stead, wash-stand, table and chairs. The student furnishes all other articles, mattress, pillow, etc., and his own fuel. On account of the large demand for these rooms, applications should be made as far in advance as possible to the Chancellor.

Students desiring to rent cottages should apply to the Chancellor for permission, giving a list of the proposed house company.

Denmark Dining Hall. The Hall, which is in charge of a competent matron, and under the immediate supervision of a member of the Faculty, furnishes board, on the coöperative plan, to more than two hundred students. Regular financial statements are rendered by the professor in charge, and audited by a committee of the students. On account of the excellent management, it has been found possible to pay a rebate of several dollars at the end of each session.

The Dormitories. Rooms in the dormitories are lighted by electricity and are furnished with chairs, bed, table, and wash-stand. The University gives dormitory quarters to students rent free. A charge of five dollars per month, payable in advance, is made for each room occupied to cover the expenses of janitors, water, and lights. A deposit fee of $2.50 is required of every student before assignment is made. This fee is a charge against damage to the property, and the balance is returned at the end of the year.

The dormitories are in charge of a committee from the Faculty. The rules and regulations prescribed by this committee are enforced through Proctors placed over each division of the dormitories.

SCHOLARSHIPS.

Charles McDonald Brown Scholarship Fund.

This endowment was established in 1881, by the Hon. Joseph E. Brown, ex-Governor of Georgia, in memory of his son, of the class of 1878, for the purpose of aiding young men in defraying the expenses of their education. The interest on this fund is lent to worthy young men on condition that they obligate themselves to return it with four per cent. interest. Young men who enter the ministry are required to return but one-half the amount borrowed, with interest.

The colleges participating in the benefits of this fund are: the colleges at Athens (including the Law Department), the Medical College at Augusta, and the North Georgia Agricultural College at Dahlonega.

A special circular of information concerning the fund, and blank forms of application will be supplied on request. Applications for loans from this fund must be made on these forms and must be in the hands of the Chancellor by April 1st.

The Class of 1897 Scholarship Fund.—The class of 1897 at their reunion in 1907 established a fund to be lent to needy students. Two hundred dollars is to be lent each year, and the money is to be paid back with four per cent. interest by the borrower as soon as possible after leaving college. Applications for the use of this fund must be made to the Chancellor. The applicant must be of good moral character, a good student, and a good athlete.

The Honor Graduate of an Accredited High School, on presentation of an official certificate by the Principal, is awarded a scholarship at the University for one year in the Academic courses. This exempts him from the payment of tuition or matriculation fees.

The Hodgson Scholarship.—One hundred dollars per year for ten years, (expiring in 1918), given by the Empire State Chemical Company, to be lent on the same terms as the Charles McDonald Brown Scholarship Fund.

The A. L. Hull Scholarship.—One hundred dollars per year for five years (expiring in 1915), given by the sons of the late A. L. Hull, to be lent to worthy young men, preferably Presbyterians, at five per cent. per annum.

SELF HELP.

Many opportunities for self-help are offered to needy students, and many are working their way through college by clerical work or teaching.

THE PHELPS-STOKES FELLOWSHIP.

This Fellowship has been endowed under the following resolutions of the Trustees of the Phelps-Stokes Fund:

"Whereas, Miss Caroline Phelps Stokes in establishing the Phelps-Stokes Fund was especially solicitous to assist in improving the condition of the negro, and

"Whereas, It is the conviction of the Trustees that one of the best methods of forwarding this purpose is to provide means to enable southern youth of broad sympathies to make a scientific study of the negro and of his adjustment to American civilization,

"Resolved, that twelve thousand five hundred dollars ($12,500) be given to the University of Georgia for the permanent endowment of a research fellowship, on the following conditions:

"1. The University shall appoint annually a Fellow in Sociology, for the study of the Negro. He shall pursue advanced studies under the direction of the departments of Sociology, Economics, Education or History, as may be determined in each case by the Chancellor. The Fellowship shall yield $500, and shall, after four years, be restricted to graduate students.

2. Each Fellow shall prepare a paper or thesis embodying the result of his investigations which shall be published by the University with assistance from the income of the fund, any surplus remaining being applicable to other objects incident to the main purpose of the Fellowship. A copy of these resolutions shall be incorporated in every publication issued under this foundation.

"3. The right to make all necessary regulations, not inconsistent with the spirit and letter of these resolutions, is given to the Chancellor and Faculty, but no changes in the conditions of the foundation can be made without the mutual consent both of the Trustees of the University and of the Phelps-Stokes Fund."

DISCIPLINE AND GENERAL REGULATIONS.

The discipline of the colleges at Athens is in the hands of the Chancellor of the University, who in its administration may ask advice of the Faculty. The honor system prevails and formal regulations are few and general in character.

The State of Georgia extends the privileges of the University to all persons who are qualified for admission. Thus the University does not receive patronage, but is itself the patron of those who seek its privileges and honors. It is maintained at public expense for the public good. It cannot, however, be the patron of inefficiency, idleness, or dissipation. Its classes have no room except for those who diligently pursue the studies of their choice and are willing to be governed in their conduct by the rules of propriety. Every student owes to the public a full equivalent of expenditures in his behalf, both while in the institution and afterwards.

The Registrar's books will open on Monday, Sept. 16th, and the following rule has been passed by the Board of Trustees relative to registration:

All students registering after Saturday noon following the Wednesday on which the University opens shall pay an extra registration fee of $2.50, unless excused from the payment of the same by the Chancellor.

The annual session of the University is divided into three terms, as follows:

First Term.—From the opening in September to the beginning of the Christmas vacation.

Second Term.—Beginning at the close of the Christmas vacation, and extending to and including the third Saturday in March.

Third Term.—Beginning at the close of the second term, and extending to and including the Friday before Commencement Day.

At the end of and within each term a sufficient number of days is set apart for term examinations, two examinations, of not more than three hours duration each, being given on each day, and the examinations for the Senior classes at the end of the third term conclude on the Wednesday preceding Commencement Day.

At the instance of an officer of instruction, the Faculty may grant a reëxamination to a student failing in any of the term examinations, providing that such reëxamination shall be held within the period set aside for the third term examinations, extended to and including the Monday preceding Commencement Day, except that for the graduating class such period shall not extend beyond the Saturday preceding Commencement Day.

The term examinations of any session will be open to students who may have failed in the examinations of preceding sessions.

No other examinations (except the regular entrance examinations) will be authorized by the Faculty or held by the officers of instruction, it being understood that this regulation does not forbid written tests within the regular class hour, provided the preparation for such written tests does not reasonably involve neglect of other duty.

Five reports of the standing of students are made during the session, one at the end of each term and one in the middle of each of the first and second terms.

The annual Commencement exercises are held on the third Wednesday in June. Other exercises are held on preceding days, and the baccalaureate sermon is preached on the Sunday preceding. The summer vacation extends from Commencement Day to the third Wednesday in September. During this time, however, the Summer Session of the University is held, as indicated in the Calendar. A short recess is given at Christmas, and national and state holidays are observed, as indicated in the Calendar.

STUDENT ADVISERS.

Students are assigned in suitable numbers to the several members of the Faculty for special oversight. In case of any proposed change in his course of study, a student must consult his adviser, who will judge the reasons for the change and report the case to the Dean for final action.

CHAPEL SERVICES.

Chapel exercises, conducted by the Chancellor or some member of the Faculty, are held every morning except Sunday in the Chapel. On Sunday the students may attend services in any of the Sunday Schools, Churches, and Religious Associations in the city. These are as follows: Baptist, Catholic, Christian, Episcopal, Methodist, Presbyterian, Jewish Synagogue, Young Men's Christian Association, etc.

HONORS AND APPOINTMENTS.

Sophomore Declaimers.—In April of each year ten members of the Sophomore Class are selected to compete for a declamation prize offered at Commencement.

Junior Speakers.—Six members of the Junior Class are selected on the basis of original speeches to represent the class at Commencement.

Senior Speakers.—The Senior Class is represented on Commencement Day by two orators, the selection being made on the merits of original speeches. No student who fails to receive his degree may appear among the speakers.

Speakers from the Law Department.—Two members of the Law Department are selected by the Faculty to represent that department on Commencement Day.

Valedictorian.—At the regular Faculty meeting, on Monday before the third Wednesday in May, the Faculty nominates not more than five members of the Senior Class who stand first in scholarship. The names are submitted in alphabetical order to the Senior Class, and they elect from them a valedictorian, with the understanding that he shall maintain his standing in scholarship but need not be the first honor man.

No student is allowed to appear at Commencement either as speaker or declaimer who is not a member in good and full standing of one of the literary societies, and who has not taken instruction in declamation in this or some other institution—in either event to the satisfaction of the Professor of Rhetoric and English Literature.

The Debaters' Medals.—Six gold medals are offered by the Board of Trustees, to be awarded as prizes to members of the Freshman and Sophomore classes for excellence in debating. A medal is awarded to each of the debaters representing the Literary Society which wins a debate.

The Ready Writer's Medal.—To encourage the art of composition, the Board of Trustees award a gold medal for the best essay written by any student of the University upon a theme announced after the competitors enter the room.

The Willcox Prizes.—Two prizes, in French and in German, of $50.00 (gold) each, are offered for competition in the Senior Class in French and in German. These prizes were founded in 1896 as a memorial to their lamented father, by the sons of the late Prof. Cyprian Porter Willcox, A.M., LL.D., who, from 1872 until his death in 1895, filled with great distinction the chair of Modern Languages in the University.

The Freshman Prize.—The "Hamilton McWhorter Prize," as of the class of 1875, for general excellence in the Freshman Class, is awarded to the member of that class who stands first in scholarship.

The Bryan Prize.—The Hon. W. J. Bryan has donated the sum of two hundred and fifty dollars, the income of which is given annually as a prize to the writer of the best essay on our form of government.

The Peabody Scholarship.—In 1903 Mr. George Foster Peabody established a permanent scholarship in Harvard University for the benefit of a graduate of this institution. The appointment is made annually by the Chancellor.

The Philosophy Prize.—Two prizes of fifty dollars each were founded in 1902 by Judge Horace Russell, of New York. These prizes, named by the Board of Trustees the "Horace Russell Prize in Psychology," and the "Walter B. Hill Prize in Ethics," are awarded to the writers of the best essays on subjects assigned by the Professor of Philosophy.

The Cadet Prize.—A prize is annually awarded to the best drilled cadet in the Battalion in a competitive contest held during Commencement.

The R. E. Park, Jr., Prize.—Prof. R. E. Park, Jr., offers a gold medal for the best oration by a member of the Junior Class.

The L. H. Charbonnier Prize.—A prize of a fine set of drawing instruments is offered by Mrs. Jas. F. McGowan, of Augusta, in honor of her father, who for more than thirty years served the University with distinction as Professor of Engineering, Commandant of Cadets, and Professor of Physics and Astronomy. This prize will be given to the member of the graduating class whose record in the school of Physics has been most creditable.

The College of Agriculture Prize.—The Trustees offer a prize of twenty-five dollars in gold to the student in Agriculture writing the best essay on a subject assigned by the professors of agriculture. Other prizes offered to students in Agriculture are described in the statement of the College of Agriculture.

AWARD OF PRIZES, 1911.

The Debaters' Medals.—Freshman Class: L. Michael, I. Funkenstein, F. C. Cooper; Sophomore Class: R. H. Freeman, E. B. Dunlap, E. Morgenstern.

The Ready Writer's Medal.—J. E. Varela.

The Willcox Prizes.—French: P. M. Rubinstein.
German: G. L. Kelly, S. Brock.

The Freshman Prize.—A. B. Bernd.

The W. J. Bryan Prize.—G. G. Blanton.

The Horace Russell Prize in Psychology.—V. E. Durden.

The Walter B. Hill Prize in Ethics.—G. L. Kelly.

The Cadet Prize.—R. H. Patterson.

The R. E. Park, Jr., Prize.—G. T. Northen.

The L. H. Charbonnier Prize.—S. B. Slack.

The Trustees Prize in Agriculture.—C. H. McLemore.

DEGREES—1911.

HONORARY DEGREES.

Doctor of Laws.

William McFadden Alexander, D.D.
Nathaniel E. Harris.

GRADUATES.

Master of Arts.

Paul Kimsey.

Bachelor of Arts.

George Lombard Kelly
Edwin Warren Moise
with honors.

Reuben Winfield Allen.
Paul R. Anderson.
William Willis Anderson.
Robert Stanford Arnold.
Paul Lafayette Bartlett.
George Grady Blanton.
Pope Furman Brock.
Sam Brock.
Joseph Emerson Brown.
Render Dallis.
William Grimes Dancy.
Tillou Henderson Forbes.
William Ellis Fort.
James Holmes Foster.
Young Harris Fraser.
William Morris Happ.
Eustace Vivian Harris.
Richard Hutchings Johnston.
William Solomon Jones.
Arthur Kenney Maddox.
Joseph Hancock Marshburn.
William Jonathan Northen.
Edgar Legare Pennington.
John Rountree Powell.
Herman Ellis Riddell.
Percy Morton Rubinstein.
James Jackson Slaton.
Corbin Cox Small.
Joseph Middle Solomons.
Olaf Johann Tolnas.
Robert Battey Troutman.
William Conrad Turpin, Jr.
John Hugh Watson.
Fred Cooper Whelchel.
Boykin Cabell Wright.

Bachelor of Science (General).

George Clifton Arnold.
Lyman Floyd Buttolph.
Pat Mell Cheney.
Roy Griffith.
James Paul Jones.
Jacob Henry Lowry.
George Godolphin Osborne.
Howell Benajah Peacock.
John Gordon Thurman.
Magnus J. Witman.
William Garrard, Jr., as of the class of 1910.

Bachelor of Science in Civil Engineering.

Rufus Russell Martin.
Louis Otto Pfeiffer.
William Stevens Pottinger.
Searcy Bradfield Slack.

Bachelor of Science in Agriculture.

Eugene Baker.
Julian Howell Miller.
Chester Horace McLemore.
Loy Edmund Rast.
George Erskine Rice.
William Fred Whatley.

Bachelor of Law.

Henderson Lovelace Lanham, with honors.

Charles Olmstead Adams.
Bishop Nettles Alsbrook.
James Francis Broach.
Howell Brooke.
Edgar Vernon Carter.
Walter Branham Cook.
Walter Grover Cornett.
Cicero Marion Dobbs.
John Porter Fort, Jr.
Omer White Franklin.
William Robert Gignilliat.
Graham Wright.
Evan Virgil Heath.
Malvern Hill, Jr.
Robert Carter Jenkins.
James Paul Jones.
Robert Grier Lumsden.
William Walter Mangum.
Thomas Oliver Marshall.
James Daniel Palmer.
Millard Rewis.
John Adam Sibley.
Roy McNaughten Strickland.
A. L. Loyd.

Graduate in Pharmacy.

Percy Morton Rubinstein.
John Hubert Ford.

PUBLICATIONS OF THE UNIVERSITY.

Bulletin of The University of Georgia.—Under this general title the University issues a monthly publication, which is sent to regular mailing lists or may be had upon application to the University.

From the College of Agriculture are issued:

Bulletin of Farmers' Institutes, President Soule, Editor.

Bulletins of the Experiment Station, Director M. V. Calvin, Editor, Experiment, Ga.

Bulletins of the College of Agriculture.

Nature Study, for the use of schools.

The University also issues a general series of **The Bulletin**, including the General Catalogue, Announcements of the Summer Session, the Law Department, and the School of Pharmacy.

The High School Handbook, containing information about accredited schools.

The Alumni Number, containing Commencement Addresses and Essays.

The Catalogue of Trustees, Officers, and Alumni, issued every five years. The last edition was published in 1907.

The University Illustrated, containing views of the University buildings and grounds.

The publications conducted by the students include:

The Red and Black, a weekly, now in its eighteenth volume, the organ of the Athletic Association.

The Pandora, an illustrated annual of college life, issued by student organizations.

The University Handbook, issued by the Y. M. C. A.

The Engineering Annual, now in its thirteenth volume, issued by the Engineering Society.

The Agricultural Quarterly, published quarterly by the Agricultural Club.

LITERARY SOCIETIES.

The Demosthenian Society was founded in 1801, and the Phi Kappa Literary Society in 1820. The members of the societies meet in their respective halls every Wednesday evening at 8 o'clock.

On the evening of February 20th these Societies celebrate together, with public exercises, the anniversary of their founding.

Under the auspices of the Literary Societies intercollegiate debates are held annually.

A Champion Debate between the two literary societies is held on the Monday evening of Commencement week.

STUDENT ORGANIZATIONS.

The college Young Men's Christian Association holds weekly meetings which are addressed by local or visiting ministers, or by members of the Faculty; prayer-meetings are also held weekly.

The Association has its own secretary, whose time is devoted to this work. Attractive reading rooms, containing the current periodicals, are open to all students. The Association also conducts an employment bureau and is of service in arranging boarding places for new students. At the opening of each session, a mass meeting, which is largely attended, is held under its auspices.

The Engineering Society was organized in 1889. Its object is to create an interest among the students in matters pertaining to civil, electrical, and architectural engineering, and recent development along all lines of scientific research. The society holds fortnightly meetings during the session, at which papers are read and lectures delivered. The society publishes in June the "Engineering Annual."

The Athletic Association is a student organization for the encouragement and management of athletic sports. Football, baseball, and track teams are regularly organized. Subject to the general direction of the Physical Director, the management of the athletic activities of the University is relegated to the Athletic Association.

The Agricultural Club was organized in 1906. Its object is to create and promote interest among the students in matters pertaining to agriculture and allied sciences. It holds regular meetings and publishes a quarterly magazine called the "Agricultural Quarterly."

Other student organizations are the Press Club, the Glee Club, the College Orchestra, and the Thalian Dramatic Association.

Regulations concerning student organizations and publications may be had on application to the Chancellor's office.

SOCIETY OF ALUMNI.

This society is composed of graduates of the University, and has for its object the promotion of letters and science, as well as the annual renewal of the associations of academic life. It holds its meetings at the close of each session, when an orator is appointed by the society from among its members. The oration is delivered on Tuesday during Commencement.

The officers of the organization are:

E. H. Callaway	President.
Clark Howell	First Vice-President.
S. B. Adams	Second Vice-President.
R. P. Brooks	Third Vice-President.
C. M. Strahan	Treasurer.
W. O. Payne	Assistant Treasurer.
Sylvanus Morris	Secretary.

Land Trustees.

D. C. Barrow.

T. J. Shackelford.

Harry Hodgson.

These Trustees, appointed by the society, are charged with the duty of purchasing additions to the campus and conveying these parcels of land to the Trustees of the University.

THE UNIVERSITY LIBRARY

DUNCAN BURNET, Librarian.
SARAH FRIERSON, Librarian Emeritus.
MILDRED R. MELL, First Assistant.
JESSIE M. HUTCHINSON, Second Assistant.

The University Library is housed in a handsome new building, the gift of Mr. George Foster Peabody. The total number of volumes is somewhat over thirty-five thousand, many of the older volumes being of considerable historical and antiquarian value. Especially may be mentioned the files of early Georgia newspapers, volumes of early American travel, and files of early English and American periodicals. The Library has had a varied career: founded by a resolution of the 27th of November, 1800, to purchase books "for the use of the students when not engaged in their academical studies," it was the cause of an attempted State lottery in 1806; had quarters in Old College, in "Philosophical Hall"—now Agricultural Hall—during 1821-23; was burned in the New College fire of 1830; occupied the "Ivy Building" for thirty years and the "Old Library" for the following forty-five; until in 1905 the present commodious building was completed.

The Library attempts, as far as its funds will allow, not only to meet the needs of the Faculty and students in the various fields of instruction and special study, but also to increase its collection on the broadest culture basis. About eight hundred volumes are added each year, and a representative list of one hundred and forty-five periodicals are taken, the back files of which, bound and available through various general and special indexes, constantly increase in value.

The Library is being recatalogued and reclassified. Its classification is based upon the Belgian amplification of the Dewey system. The dictionary catalogue contains all books acquired since 1904, and cards for old books are being added as fast as current library work will allow. A classed subject catalogue and departmental subject finding-lists are also being prepared.

Bibliographies are prepared covering the subjects of the various annual inter-collegiate, inter-society and class debates. The Library is a depository for the publications of the Federal Government. These are checked up, classified and made as available as possible through general and special government catalogues and indexes. The Library is open during the collegiate and summer school sessions, except Sundays and legal holidays, from 9 A. M. to 1:50 P. M., 3 to 5, and 7:30 to 9:30 P. M. It is open from 9 to 12 A. M. on holidays; and on Sundays, during the winter months, from 3 to 6 P. M.

THE GRADUATE SCHOOL.

HISTORICAL.

Although the first statutes of the University contemplated resident graduate students,* it was the custom here (as it was elsewhere, and indeed still is in some universities,) to confer the degree of Master of Arts upon any Bachelor of Arts of good character who, three years or more after graduation, should formally apply for the degree, and pay a fee therefor.** In 1868 a course of study was laid down which candidates for the Master's degree were to pursue. From 1869 until 1890 the regulations required the candidate successfully to complete the most advanced course in each of the academic (non-professional) schools. In 1892 the requirements for the degrees became what they have since substantially remained; slight modifications have been made from time to time.

In the Catalogue of 1872-73 the degree of Civil Engineer is advertised for the first time as a graduate degree, being based on the degree of Bachelor of Engineering. The degree of Civil and Mining Engineer was a still higher degree, based on both B. E. and C. E.

The degree of Master of Science was first offered in 1890, and M. S. in Agriculture in 1910.***

The graduate work of the University has been supervised by the Faculty, chiefly through its Committee on Graduate Courses. In 1910 the work was set apart by the Board of Trustees as the Graduate School, with its own Dean.

ADMISSION.

Admission to the Graduate School is granted to graduates of colleges of good standing. Other persons of suitable age and attainments may also be admitted by special permission of the Committee on Graduate Courses. Admision to the Graduate School does not imply admission to candidacy for a degree. Application for admission should be made by correspondence or at the office of the Dean.

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*"Masters and Bachelors of Arts, who shall signify to the President their purpose of residing at the College or in Athens with a view of pursuing literature, under his directions, and under the government of the College, and give a sufficient bond to the Board of Trustees for the payment of their quarter bills, shall be considered as resident Graduates and students of the College." Laws of the College of Georgia, 1803, Chap. II, Sec. IV. So also Code of Laws for the government of Franklin College, 1816, Chap II, Sec. XVI.

** Code of 1803, Chap. XII, Secs. II and IV. Code of 1816, Chap. II, Sec. XVI, and Chap. VIII, Secs. II and IV.

*** The degree of Master of Agriculture had been offered from 1876 to 1879.

Should a student desire to take a graduate course for which his undergraduate work has not afforded sufficient preparation, he will be required to pursue the requisite studies.

DEGREES.

The degrees conferred in the Graduate School are Master of Arts, Master of Science, Civil Engineer, Master of Science in Agriculture.

Candidates must have received a baccalaureate degree from this or some other institution of reputable standing, and must pursue here and complete satisfactorily a major and two minor courses.

The programme of study must form a consistent plan of work with some definite aim; it must not include any course that forms a part of the candidate's programme of study or of his curriculum for any other degree conferred or to be conferred here; it should be submitted early in the session (not later than November 1st,) to the Dean of the Graduate School, and must receive the approval of the Committee on Graduate Courses and of the Faculty.

After the professors under whom the candidate has pursued an approved programme of study have reported in writing to the Dean that he has satisfactorily pursued the required courses and has passed written examinations upon them, he will be orally examined by the Faculty.

Master of Arts.—Prerequisite degree: Bachelor of Arts or Bachelor of Science. The major course and at least one minor must be selected from the following departments of study: Philosophy, Education, History, Political Science, Rhetoric, English Literature, the English Language, German, Latin, Greek, Romance Languages, Mathematics.

Master of Science.—Prerequisite degree: Bachelor of Science or Bachelor of Arts. The major course and at least one minor must be selected from the following departments of study: Mathematics, Chemistry, Geology, Physics, Astronomy, Physiology, Zoölogy, Botany.

Civil Engineer.—Prerequisite degree: Bachelor of Science in Civil Engineering or Bachelor of Science in Electrical Engineering. The major course must be in the department of Civil Engineering and the minors may be from minor graduate courses, or certain undergraduate courses, offered in other departments of the University. The choice of minors is subject to the approval of the Professor of Civil Engineering.

Master of Science in Agriculture.—A reputable baccalaureate degree prerequisite. The major and at least one minor must be selected from courses offered in the College of Agriculture. One minor may be chosen from graduate courses offered in other departments of the University or from certain undergraduate courses. The choice of courses is subject to the approval of the professor in charge of the department in which the major course is selected.

COURSES, 1912-13.

Explanation.—Courses of instruction are classed as majors or minors according to the estimated amount of work required, and to some extent according to the nature of the subject. A major course will require half of the work of a candidate for the Master's degree in residence for one year. A minor course will require a quarter of his time. A major course is based upon and presupposes the Senior or most advanced undergraduate course of a Department. A minor course generally demands similar prerequisites, but extensions of certain advanced undergraduate courses may also be rated as minor graduate courses. A candidate for a degree will not be permitted, as a rule, to offer more than one minor that is not based upon the most advanced undergraduate course of a Department. All courses are submitted for approval and rating to the Comittee on Graduate Courses, and are finally passed upon by the Faculty.

GREEK.

1. *a* Selections from Homer, Herodotus, the dramatists, Thucydides, Plato, and Demosthenes.

b Brief introduction to Historical Grammar. Classical Greek Syntax: Gildersleeve, and other works. Oral and written exercises in Attic Greek. Recitation of the more familiar metres. Readings in the History of Greece.

Three Lectures per week. Major. *Professor Bocock* and *Adjunct Professor McWhorter.*

2. Introduction to the study of New Testament Greek. The Gospel of John. Brief selections from other parts of the New Testament.

Prerequisite course: undergraduate Greek 5, or equivalent.

Two lectures per week. Minor.

Note: Course 2 may be taken as part of the Major course, being substituted therein for the selections from Homer and Herodotus.

LATIN.

1. A major course, designed to supplement the undergraduate courses, and therefore somewhat general in nature. It comprises the reading of considerable portions of Catullus, Lucretius, Juvenal, Seneca, and the Younger Pliny, with readings in Dill,

Mommsen, and Ferrero; a review of grammar, from the comparative and historical point of view; exercises in Latin writing; reading in the history of the literature, and an introduction to epigraphy and palaeography. Four hours per week. *Professor Hooper* and *Adjunct Professor McWhorter.*

2. A minor course in the Roman drama, consisting of lectures on the subject, and reading of a number of representative plays of Plautus, Terence, and Seneca. Especial attention is paid to the relationship of the Roman drama to the Greek drama, on the one hand, and the English drama on the other. Two hours per week. *Professor Hooper.*

GERMAN.

The German Classics.—Selections from the following: Goethe: Werther, Faust I, Poems, Egmont, Iphigenie, Wilhelm Meister. Schiller: Kabale und Liebe, Fiesco, Don Carlos, Jungfrau von Orleans, Wallenstein, Wilhelm Tell, Poems. Lessing: Emilia Galotti, Minna von Barnhelm, Nathan der Weise, Hamburgische Dramaturgie, Laocoon, Controversial Writings.

Commentaries: Dünzer, Hettner, Braun, Bulthaupt, Fischer.

1. Major. About eleven hundred pages of German. Four conferences weekly.

2. Minor. About seven hundred pages of German. Two conferences weekly. *Professor Morris.*

FRENCH.

1. [Not offered for 1912-1913]. Histoire de la Littérature Dramatique au XVIIme Siècle.

Lectures in French, themes and reports. Reading of about 5,000 pages of text. Three hours per week. Major. *Professor Lustrat.*

2. [Not offered for 1912-1913]. La Littérature Dramatique au XVIIme Siècle.

General survey of dramatic literature in France from the tenth to the sixteenth century, followed by a thorough study of the dramatic literature of the seventeenth century. Lectures. Reports. Reading of the principal works of Corneille, Racine, Molière.

Two hours per week. Minor. *Professor Lustrat.*

3. Le Roman en France dans la deuxième partie du XIXme Siècle.

Lectures in French. Reading of works by Flaubert, Feuillet, Cherbuliez, Fromentin, les de Goncourt, Daudet, Loti, Zola, de Maupassant, Bourget, Rod, Margueritte, Rosny, Prévot, Barrés, France, Fabre, Theuriet, etc.

Two hours per week. Minor. *Professor Lustrat.*

SPANISH.

Reading, themes, study of grammatical difficulties. Books by the following writers will be read: Cervantes, Galdos, Gutierrez, Isla, Toboada, Tamayo, Valdes, Valdera, Alacon, Calderon.

Two hours per week. Minor. *Professor Lustrat.*

ENGLISH LITERATURE.

The English Drama. *a* The Early English Religious Drama, some of the Morality Plays, and a sufficient number of the early tragedies and comedies to give a clear insight into the development of the drama.

b Selected plays of Shakespeare studied with reference to their sources, technique, and literary qualities.

c History of the Elizabethan Period: manners and customs, politics, education, etc. (Traill, Collier, Courthope, Green, Taine, Symonds, and others).

d Selected plays of Jonson, Beaumont and Fletcher, Middleton, Ford, Day, Decker, Webster, and Shirley, studied in comparison with those of Shakespeare.

e A short study of the Restoration Drama as represented by Dryden, Wycherly, Congreve, Addison.

f Selected modern plays. Comparison with the earlier drama.

Text-books: Ward's English Drama; Miss Woodbridge's Technique of the Drama; Manley's Specimens of Early English Plays. Collateral reading will also be assigned.

1. *a* to *f* inclusive. Four hours per week. Major. *Professor Park.*

2. *a*, and less extensive work in *b* to *f* inclusive. Two hours per week. Minor. *Professor Park.*

HISTORY.

1. **The English Constitution to the Reign of Henry VII.**—A course comprising a thorough study of the foundations of Anglo-Saxon institutions, and their development through the mediaeval. It is based upon Stubb's Constitutional History of England, and is rated as a minor. Three hours a week, first half year. *Professor McPherson, Associate Professor Payne,* and *Adjunct Professor Brooks.*

2. **The English Constitution since the Reign of Henry VII.**—A course based upon the constitutional histories of Hallam and May, and covering the later phases of the development of English institutions. Three hours a week, second half year. Rated as a minor. *Professor McPherson, Associate Professor Payne,* and *Adjunct Professor Brooks.*

Courses 1 and 2 are together rated as a major. Each includes parallel reading, tested by frequent examinations. When taken as a major, a dissertation involving original investigation must be presented and approved before the candidate is admitted to final examination.

3. **History of Georgia.** [Not offered in 1911-12]. A course in methodology. The student will receive training in the use of original sources, and will be required to familiarize himself with all the primary and secondary sources of the history of the State. Three hours per week. Rated as a minor. *Adjunct Professor Brooks.*

ECONOMICS.

Economic Theory.—A graduate course may be offered if application be made before October 1. The last given consisted of a critical study of the following authors: Nicholson, "Principles of Political Economy," Marshall, "Principles of Economics," and Boehm-Bawerk, "Positive Theory of Capital." *Professor McPherson.*

PHILOSOPHY.

1. *a* An advanced course in General Psychology based on a study of James's Principles of Psychology, with selected readings from Titchener, Pilsbury, Gordy, Judd, and other authors. Prerequisite: Philosophy 1-2, or its equivalent.

b Psychology applied to the profession of teaching. Texts: Scripture's Seeing, Thinking, Doing; Churchill King's Rational Living; Miller's Psychology of Thinking; Münsterberg's Psychology and the Teacher, or Pyle's Educational Psychology. The subject-matter of *b* may be changed from time to time to other fields of Applied Psychology.

Three conferences a week. Major. *Professor Woofter.*

2. *a* of Course 1, as outlined above.

Two conferences a week. Minor. *Professor Woofter.*

3. An extension of the Senior Course in Philosophy. *a.* History of Philosophy, based mainly on Rogers's Students' History of Philosophy. *b.* A study of the social mind, based on Ross's Social Psychology. *c.* A study of Ethics, based mainly on the text of Dewey and Tufts.

Four hours a week. Minor. *Professor Woofter.*

MATHEMATICS.

Of the following courses the requirement for a major will be two lectures per week in each of any three, together with an original paper covering an investigation of some related topic to be assigned by the department.

1. **Differential Equations.**—An elementary course in Ordinary and Partial Differential Equations, with especial reference to methods of solution of equations most frequently occurring in the physical sciences.

2. **Vector Analysis.**—A course of lectures in which a system of coördinates is presented and their advantages in certain classes of problems illustrated.

3. **Projective Geometry.**—A course in Synthetic Geometry, based upon Holgate's translation of Reye, with reference to Cremona and Enriques.

4. **Theoretical Mechanics.**—An analytical treatment of certain questions in Statics and Dynamics with the aid of the Calculus. A large number of problems illustrating the principles will be given. *Professor Stephens* and *Instructor Pond.*

PHYSICS.

a Physics 3 as given to the Senior Class; consisting of three hours per week of lectures on Theoretical Physics, as follows: First term, the Wave Theory of Light, using Edsen's "Light for students" as a text. Second term: the Propagation of Electromagnetic Waves, using Fleming's "Principles of Electric Wave Telegraphy" as a reference book. Third term: the Discharge of Electricity through Gases, Radioactivity, and the Electron Theory, using McClung's "Discharge of Electricity through Gases," and Campbell's "Modern Electrical Theory" as reference books.

b Individual laboratory work requiring approximately four hours per week; to be devoted to a series of experiments designed to illustrate and verify conclusions reached in the theoretical discussions of Physics 3 (*a*). In this work the student will be largely left to his own resources to work out the details of the method to be adopted in the solution of the experimental problems which will be assigned.

Minor for a candidate for the degree of C. E. *Professor Hendren.*

CHEMISTRY.

Opportunity is offered to a limited number of qualified students to pursue advanced work in chemistry. The minimum qualification is satisfactory completion of undergraduate courses 2 and 8 in the department of Chemistry, or their equivalents. The nature of the advanced work will be determined by individual conference. *Professor White.*

BIOLOGY.

1. **Advanced Animal Physiology.**—This course is based upon Howell's Text Book of Physiology, supplemented by the reading of selected portions of other works, and original sources in current physiological journals. In addition to this is laboratory work in Physiological Chemistry and Experimental Physiology. Three hours weekly with six hours laboratory work. Major. *Professor Campbell.*

2. This course includes all of the undergraduate course Zoölogy 4, 5, together with two hours of laboratory work in addition, reference work to advanced texts, and occasional periodical literature on practically every topic taken up. The subject matter is then as follows:

4: General Vertebrate Zoölogy. One lecture weekly, and four hours of laboratory work.

5: Morphology of Vertebrates. This includes two exercises weekly devoted to the Gross Anatomy, Comparative Anatomy, Histology, and Embryology of Vertebrates. It is in connection with this part of the course that the additional reading is given.

CIVIL ENGINEERING.

Baker's Masonry Construction. Irrigation, based on Wilson, Newell. Land Drainage, Elliott, and United States Irrigation Papers. Reinforced Concrete, Turneaure, Taylor and Thompson. Hydraulics, Russell, Merriman. Lectures. Various essays and designs are required of the students.

Six hours per week. Major. *Professor Strahan.*

AGRONOMY.

1. **Soil Types of Georgia.**

(*a*) A general study of soil formation based on Soils, by Hilgard; Rock, Rock Weathering and Soils, by Merrill; Origin and Nature of Soil, by Shaler; and Disintegration of Georgia Granitic Rocks, by Watson.

(*b*) A laboratory study of the physical properties of at least two soils from the Appalachian valley, two from the Piedmont, and two from the coastal plain, with a comparative study of geological and soil areas. King's Agricultural Physics will be used as a basis for this work, and Stevenson's and Schaub's Laboratory Guides will be used as an outline for laboratory work. Soil surveys of the state made by the Bureau of Soils and geological maps will be used as the basis of a comparative study.

(*c*) A pot test to determine the influence of lime and organic matter on crop production with the six soils noted above.

Three conferences per week and at least three laboratory periods. Major. *Professor Fain.*

2. **Improvement of Seed Corn.**

An extension of the work of Agronomy 7 with additional work in the field through at least two seasons. The work will include a review of the Experiment Station literature on the improvement of corn, the Book of Corn, edited by Myrick; Corn Plants, by Sargent; Examining and Grading Grain, by Lyon and Montgomery; and Farm Seeds, part VI, of Agricultural Botany, by Percival.

Students will be expected to make seed selections, germination tests, and follow up the progeny of the seed tested through two seasons.

Two conferences per week and at least two laboratory periods. Minor. *Professor Fain.*

3. **Physical Properties of Soils.**—An extension of undergraduate courses 6 and 7, based on King's Agricultural Physics, Lyon and Fippins's Soil Management, Hilgard's Soils, and Shaler's Formation of Soils. In addition to the laboratory and text work, field examination of the principal soil types in the Piedmont region and Coastal Plains of Georgia.

Two conferences per week. Minor. *Professor Fain.*

4. **Fertilizers.**—A study of the methods of field experiments, together with the use and effect of commercial fertilizer, with especial reference to nitrogen. The course is based on Hopkins's Soil Fertility, Hall's Report of the Rothampsted Experiment Station, and the published field work of the Experiment Stations of this country. Field work will be carried on in different parts of the state of Georgia for data on the effect of varying amounts of nitrogen on crop production.

Two conferences per week. Minor. *Professor Fain.*

Note: Courses 3 and 4 may be taken together as a major course.

COTTON INDUSTRY.

1. **Cytological Aspects of Plant Breeding.**—This course will be based on Flatter's "Methods in Microscopical Research" and Wilson's "Cell in Development and Inheritance," and is designed to fit the student for investigation work in the fundamental principles of breeding. The laboratory material will consist largely of cotton blooms, although other flowers will be used where it will prove beneficial to the student. Cannon and Balls will be followed in the technique of the study of the cotton bloom, while the student will be required to use as parallel reading Weismann's "Germinal Selection," Darwin and Spencer's "Pangenesis Theory," and much of the more recent literature on the theory of cell development. Three periods of two hours each of laboratory work and one lecture per week. Minor. *Professor DeLoach.*

2. **Experimental Plant Breeding.**—This course will be based on "Mendel's Principles of Heredity" by Bateson, Darwin's "Plants and Animals under Domestication" with special reference to the chapters on plants under domestication, and DeVries's "Mutation Theory," two volumes. Readings from Kellog's "Darwinism Today," Osborn's "From the Greeks to Darwin," and Brooks's "The Foundations of Zoölogy" will be required. The student will also

be required to do experimental work in cotton breeding. Three hours per week. Minor. *Professor DeLoach.*

Courses 1 and 2 taken together constitute a major. The student will be required to work out some definite problem in cotton breeding and present a thesis thereon.

AGRICULTURAL CHEMISTRY.

1. **Agricultural Chemical Analysis.**—This course will be based on the work offered Seniors and will be limited to the type soils of the state. Analyses will be made of at least five types as unlike as can be obtained, and a special study will be made of the nature and character of the organic matter contained. The geological formation in the localities in which these soils are found will be studied.

Work will be done towards improving a few of the methods by which it is now difficult to duplicate results, such as that for determining humus.

Parallel reading and an acquaintance with work being carried on in other laboratories will be required. This reading will be Stockbridge's Rocks and Soils, Hopkins's Fertility, Hall's Soils, Hilgard's Soils, and the Bulletins bearing on the subject.

Wiley's Principles and Practice of Agricultural Analysis, Vol. I, and Bulletin No. 107, Official and Provisional Methods of Analysis, will be used as reference books.

Three conference hours and six laboratory periods per week. Major. *Professor Worsham.*

2. An extension of agricultural chemistry 4, for students who have had agricultural chemistry 4, and wish to pursue the work exclusively with soils, fertilizers, or food and feed stuffs. This will be left partially optional with the student. Students working with soils will be required to make three complete analyses of soils. Those working with fertilizers will be required to make an analysis of fifteen complete and ten incomplete fertilizers. Those working with feeds and foods will be required to make twenty-five analyses.

The same reference books as are used in course 1, with the addition of Vol. II of Wiley's Principles and Practice of Agricultural Analysis, and Leach's Food Inspection and Analysis, will be used in this course.

Four hours per week. Minor. *Professor Worsham.*

HORTICULTURE.

1. Junior courses Nos. 4, 5, 6, 7, 8, and 9; with selected reading from the following: The American Fruit Culturist, Thomas; Fruit and Fruit Trees of America, Downing; Plums and Plum

Culture, Waugh; Plant Diseases, Duggar; The Small Fruit Culturist, Fuller; Barry's Fruit Garden, Journals, Bulletins, etc.

Four hours per week and laboratory work. Minor. *Professor McHatton.*

2. **Advanced Pomology.**—This course is open to students who have specialized in Horticulture, and is based upon Bailey's Evolution of our Native Fruits and The Survival of the Unlike.

Selected reading from the following, to be mainly along the lines of origins of varieties of plants and the histories of various fruits: Plant Breeding, Bailey; Species and Varieties: Their Origin and Mutation, DeVries; Animals and Plants Under Domestication, Darwin; Origin of Species, Darwin; Heredity, Thompson; Mendelism, Punnet; Fruits and Fruit Trees of America, Downing; American Fruits and Their Culture, Hume; The Grapes of New York, Hedrick; Foundations of American Grape Culture, Munson; The Apples of New York, Beach; Journals, Bulletins, etc.

Two conference hours per week, and two laboratory periods. Minor. *Professor McHatton.*

3. **Advanced Pomology,** Course 2, with the addition of a *thesis* on some horticultural subject. This thesis is to call for not less than three laboratory periods per week and is to consist of research work to be chosen by the student with the assistance of the instructor. Major. *Professor McHatton.*

ANIMAL HUSBANDRY.

1. Investigations of feeding problems, based on feeding tests covering periods of from 90 to 180 days, with a sufficient number of animals to give reliable results. Accurate and detailed records of kinds and amounts of feed will be kept, together with records of production. In addition a thorough study will be made of the chemical and physiological changes, reactions and processes involved in animal life, such as assimilation, disassimilation, mastication, digestion, absorption, respiration, circulation, secretion, and reproduction.

Parallel reading: Lusk's Elements and Science of Nutrition; Armsby's Principles of Animal Nutrition; Hervy's Feeds and Feeding.

Prerequisite: undergraduate courses 6 and 7.

Two lectures a week. Minor. *Professor Jarnagin.*

2. Based on undergraduate course 12. The student will be required to conduct a feeding experiment of sixty days with three groups of pigs. Group 1 is to receive no cotton seed meal. Group 2 is to receive a sufficient amount of protein in the form of cotton seed meal to make a balanced ration. Group 3 is to receive all the cotton seed meal it will consume.

Parallel reading: Henry's Feeds and Feeding; Dietvich's Swine; Experiment Station Bulletins; Reports of Bureau of Animal Industry.

Two conferences a week. Minor. *Professor Jarnagin.*

VETERINARY MEDICINE.

The course consists of work in the Theory and Practice of Veterinary Medicine, including attendance upon clinics, and lectures and laboratory work in Bacteriology. It is based on undergraduate courses 5 and 6, and the student must have taken courses 1, 2, 3 and 4, or work of equal value in some other institution. Special attention is paid to the study of pathogenic bacteria, and particularly to those varieties that are the causative agents of diseases in animals. The course in Theory and Practice consists of lectures and clinical demonstrations. Students are required to attend clinics, diagnose, prescribe for, and prepare and administer medicine and treatment to clinic cases.

Texts: Law's Veterinary Medicine; Jordan's General Bacteriology; McFarland's Pathogenic Bacteria.

Two conferences and two laboratory periods a week. Minor. *Professor Burson.*

EXPENSES.

Residents of Georgia pay no tuition fees. Students who are residents of other states pay a tuition fee of $50.00 per annum. The following estimate of expenses for a student rooming in a dormitory and boarding at Denmark Hall includes all necessary items except clothing and railway fare:

Matriculation fee (paid on entrance)	$ 10.00
Library fee (paid on entrance)	5.00
Board (monthly, in advance, $20.00)	180.00
Furnishing room in dormitory (estimated)	13.50
Laundry (estimated at $1.50 per month)	11.25
Room rent, lights and attendance, ($2.50 per month)	22.50
Fuel (estimated)	10.00
Books and stationery (estimated)	20.00
	$271.00

For laboratory fees in Chemistry, Zoölogy, Physiology, Botany, and Physics, see p. 35.

GRADUATE COURSES IN THE SUMMER SCHOOL.

The University will permit a graduate student, eligible to candidacy for a second degree, to secure the Master's degree upon the successful completion of graduate courses pursued during not less than three Summer Sessions. During the period intervening between the Summer Sessions the candidate must continue his studies under the direction of the professors in charge of his several courses. In the case of each course thus given the professor will submit to the Committee on Graduate Courses for their approval a definite statement of the work to be done by lectures and conferences and that to be done by the candidate *in absentia*. And this apportionment must be approved by the University Faculty.

The University does not undertake to provide graduate courses in the Summer School, such provision being in the hands of the Board of Directors of the Summer School. But the University guarantees the quality of such graduate courses as are given.

Full particulars of the Summer School courses will be found in the special Bulletin of the Summer School.

For further information address

WILLIS H. BOCOCK,

Dean of the Graduate School.

FRANKLIN COLLEGE

THE COLLEGE OF ARTS.

STAFF OF INSTRUCTION.

D. C. BARROW, LL.D., Chancellor.
C. M. SNELLING, Sc.D., President, and Professor of Mathematics.

H. C. WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry, and Terrell Professor of Agricultural Chemistry.
J. P. CAMPBELL, Ph.D., Professor of Biology.
W. H. BOCOCK, LL.D., Milledge Professor of Ancient Languages.
J. H. T. McPHERSON, Ph.D., Professor of History and Political Science.
W. D. HOOPER, A.M., Professor of Latin.
J. MORRIS, A.M., Professor of English Language and Teutonic Philology.
J. LUSTRAT, Bach. ès Lett., Professor of Romance Languages.
R. E. PARK, A.M., Litt.D., Professor of Rhetoric and English Literature.
T. J. WOOFTER, Ph.D., Professor of Philosophy and Education.
J. S. STEWART, A.M., Professor of Secondary Education.
S. V. SANFORD, A.B., Junior Professor of Rhetoric and English Literature.
L. L. HENDREN, Ph.D., Professor of Physics and Astronomy.
J. M. READE, Ph.D., Professor of Botany.
W. O. PAYNE, A.M., Associate Professor of History and Political Science.
R. P. STEPHENS, Ph.D., Associate Professor of Mathematics.
H. V. BLACK, Ph.D., Associate Professor of Chemistry.
R. P. BROOKS, B.A., (Oxon.), Adjunct Professor of Georgia History and Sociology.
R. L. McWHORTER, A.M., Adjunct Professor of Latin and Greek.
M. D. DuBOSE, A.M., Adjunct Professor of English Language and Teutonic Philology.
S. M. SALYER, A.B., Adjunct Professor of Rhetoric and English Literature.
R. S. POND, Ph.D., Instructor in Mathematics.
C. A. WELLS, M.S., Instructor in Chemistry.
E. T. MILLER, B.S., Instructor in Physics.
W. T. TURK, A.B., Tutor in Romance Languages.
H. A. NIX, A.B., Tutor in Rhetoric and English Literature.
H. B. PEACOCK, B.S., Tutor in Philosophy and Education.

SCHOOLS OF FRANKLIN COLLEGE.

(Arranged in the order of official seniority of the professors).

Chemistry.
Biology.
Greek Language and Literature.
History and Political Science.
Mathematics.
Latin Language and Literature.
English Language and Teutonic Philology.
Romance Languages.
Rhetoric and English Literature.
Philosophy and Education.
Physics and Astronomy.
Botany.
Geology.

From these Schools systematic courses of instruction are arranged, leading to degrees, as described below.

ENTRANCE SUBJECTS.

The following subjects are required for admission to Franklin College: English, History, Plane Geometry, High School Algebra, Latin, and Greek or French or German. (For details as to subjects and methods of admission, see page 22 ff.

ADMISSION TO THE SOPHOMORE CLASS.

For admission to the Sophomore Class, the student must offer in addition to the subjects mentioned above, the equivalent of the courses in Mathematics, Latin, English, History, and Greek or French or German pursued by the Freshman Class and given in the table below. In this table the figure attached to the name of the subject refers to the course described under that number in the detailed account of the courses offered in that School. Thus, "English 1" in the table below means the course in Composition and Rhetoric described in the statement of the School of Rhetoric and English Literature on page 74. The figure at the end of the line means the number of recitation hours per week in that course.

DEGREE.

The one undergraduate degree given in Franklin College is that of Bachelor of Arts. Options in the Junior and Senior classes must be selected after conference with and with the consent of the Dean of the College.

The subjects entering into the course for this degree are given below:

BACHELOR OF ARTS.

Freshman.		Sophomore.	
English 1,	3	English 2,	3
Greek 3	4	Greek 4 or French* 4 or German* 4,	3
or French* 3 or German* 3	3	History 4,	3
Georgia History,	1	Latin 2,	3
History 2,	3	Mathematics 3 (*a*)	3
Latin 1,	4	Physics 1** or 2,	3
Mathematics 1, 2,	3		
Military Science	1		
	18		18

*If Greek 3 and 4 are not offered both French and German must be substituted. The candidate may, in this case, offer German 3 and 4, and also French 5 and 6, in addition to the five required Junior and the five required Senior subjects; or he may offer French 3 and 4, and also German 5 and 6, in addition to the five required Junior and the five required Senior subjects. French 5, 6, or German 5, 6, thus offered will satisfy the requirements of Group I. in the Junior and Senior years.

**Physics 2 is required of students who have received one unit entrance credit for Physics.

Junior.

I.	English Language 1,	3	One required; three may be taken.
	French 5,	3	
	German 5,	3	
	Greek 5,	3	
	Latin 3,	3	
II.	Botany 1,	3	One required; two may be taken.
	Zoölogy 3,	3	
	Chemistry 2,	3	
	Physics 2 or 4,	3	
III.	English Literature 3-4, or 8-9,	3	One required; three may be taken.
	History 5-6, or 10,	3	
	Philosophy, 1, 2,	3	
	Education 1,	3	
	Education 2,	3	
	Mathematics 5,	3	
	Spanish 1,	3	

Five subjects, fifteen hours, required.

Senior.

I.	English Language 2,	3	One required; three may be taken.
	French 6,	4	
	German 6,	3	
	Greek 5 or 6,	3	
	Latin 4,	3	

II.	Botany 2,	3	One required; two may be taken.
	Zoölogy 3 or 4-5,	3	
	Chemistry 2, 3, 4 or 5,	3	
	Physics 2, 4, or 5,	3	
III.	Economics 14, 15,	3	One required; two may be taken.
	Philosophy 3-4, 5, or 6,	3	
	Astronomy and Geology	3	
	Education 1, 2, 3, or 4, or 6,	3	
	Philosophy 1-2, or 6,	3	
	English Literature 3-5, or 3-4, or 6-7,	3	
	History 5, 6, or 8, 9, or 10,	3	
	Italian 1,	3	
	French 5,	3	
	Latin 3,	3	
	German 5,	3	
	Mathematics 6, 7,	3	
	Mathematics 8, 9,	3	
	Spanish 1,	3	

The following arrangements of subjects in the Junior and Senior classes are offered for the guidance of students. If other arrangements are desired, the choice of subjects must be submitted to the Dean for approval.

Junior.

A. (Classical).	B. (Math.-Classical.)	C. (Hist.-Polit.)
Latin, 3. Greek, 5. French, 5. or German, 5. Chemistry, 2. Elective, from Group III.	Mathematics, 5. Latin, 3. or Greek, 5. French, 5. or German, 5. Chemistry, 2. Elective, from Group III.	History, 5, 6. Latin, 3. or Mathematics, 5. French, 5. or German, 5. Chemistry, 2. Elective.

D. (Philos.-Pedag.)	E. (English-Teutonic).	F. (English-Romance).
Philosophy, 1, 2. Education, 1. History, 5-6, or 10. Chemistry, 2. Elective, from Group I.	English, 3-4, or 8-9. German, 5. English Language, 1. Chemistry, 2. Elective.	English, 3-4, or 8-9. French, 5. Latin, 3. Chemistry, 2. Elective.

Senior.

A.
(Classical).

Latin, 4.
Greek, 5 or 6.
French, 5 or 6.
or
German, 5 or 6.
Botany, 1.
or
Zoölogy, 3 or 4-5.
Elective, from Group III.

B.
(Math.-Classical).

Mathematics, 8, 9.
Latin, 4.
or
Greek, 5 or 6.
French, 5 or 6.
or
German, 5 or 6.
Botany, 1.
or
Zoölogy, 3 or 4-5.
Elective, from Group III.

C.
(Hist.-Polit.)

History, 8-9, or 10.
Economics, 14, 15.
French, 5 or 6.
or
German, 5 or 6.
Botany, 1.
or
Zoölogy, 3 or 4-5.
Elective.

D.
(Philos.-Pedag.)

Philosophy, 3-4, 5, 6, or 1-2.
Education, 1, 2, 3, or 4.
or
Economics, 14, 15.
English, 9, 10.
Botany, 1.
or
Zoölogy, 3 or 4-5.
Elective, from Group I.

E.
(English-Teutonic).

English, 5, or 3, 4, or 6, 7.
German, 5 or 6.
English Language, 2.
Botany, 1.
or
Zoölogy, 3 or 4-5.
Elective.

F.
(English-Romance).

English, 5, or 3, 4. or 6, 7.
French, 6.
Spanish, 1.
or
Italian, 1.
Botany, 1.
or
Zoölogy, 3 or 4-5
Elective.

COURSES OF INSTRUCTION

CHEMISTRY.

H. C. WHITE, Professor.
H. V. BLACK, Associate Professor.
C. A. WELLS, Instructor.

The following courses are offered:

2. **Inorganic Chemistry,** College Course. Three hours per week of lectures and recitations and two laboratory periods for three terms. Text: Kahlenberg; Outlines of Chemistry.

3. **Organic Chemistry.** College Course. Three hours per week of lectures and recitations and two laboratory periods for three terms. Text: Remsen; Organic Chemistry.

4. **Industrial (including Agricultural) Chemistry.** Three hours per week of lectures and recitations for three terms. Texts: Professor's Notes; Thorpe; Industrial Chemistry.

5. **Physical Chemistry.** Three hours per week of lectures and recitations and two laboratory periods for three terms.

A fee of $2.50 is charged for chemicals used in the laboratories in courses 2, 3, and 5. Necessary apparatus is furnished students and breakage must be paid for at the end of the course.

BIOLOGY.

J. P. CAMPBELL, Professor.
P. L. HUDSON, Student Assistant.

In this School the following courses are offered for the ensuing year:

3. **General Invertebrate Zoölogy.** This course is based upon the laboratory study of a selected series of types representing most of the main divisions of the kingdom. Arthropods are studied in the first term, Mollusca, Annulata, and the smaller phyla in the second, and Echinoderms, Coelentera and Protozoa in the third. The morphological point of view predominates, but attention is also given to physiology, ecology, embryology, and classification, and in addition, each group is made to illustrate some important theoretical question to which it is especially adapted. Three hours weekly with laboratory work additional. *Optional for Juniors and Seniors.*

4. **General Vertebrate Zoölogy.** This is the continuation of course 3, and the same general methods prevail. The protochordata are first taken up with a discussion of the theoretical questions that they involve, after which the various vertebrate classes are considered, attention being given to structure, ecology, classification, economic problems, etc. One hour weekly, with laboratory work additional. *Optional for Seniors who have completed course 2.*

5. **Morphology of Vertebrates.** In this course attention is given to the Embryology and Comparative Anatomy of Vertebrates as well as to the leading theoretical questions which the study of this group presents. The laboratory work accompanying consists of additional Vertebrate dissections and work in Histology and Embryology. Two hours weekly. *Optional for Seniors.*

Note.—Seniors who expect later to take up the study of medicine may, if they prefer, take courses 4 and 6. (See State College). This can only be allowed to students who have a good knowledge of elementary Physiology.

Laboratory Work. The department possesses special laboratories for each of the courses given. The equipment of these is such that the work can be done to good advantage.

By special action of the Faculty, an extra laboratory period of two hours weekly is required of each student in the Junior and Senior classes in addition to the three hours of class room work. Extra time for laboratory work is secured whenever needed for an entire class by substituting a two hour laboratory period for a class hour. The laboratories are open daily from 9 A. M. to 5 P. M., and students having the time and inclination are encouraged to devote extra time to their work.

A fee of $2.50 is charged for each laboratory course, for which the student is furnished a microscope and everything needed except dissecting instruments and drawing materials.

GREEK.

W. H. BOCOCK, Professor.
R. L. McWHORTER, Adjunct Professor.

The standard of this School depends largely upon the character of work done in the preparatory schools of Georgia. The requirements for admission, given elsewhere, are based directly upon that work. With this basis, the guiding principles of the courses given to the lower classes are the early mastery of the forms, a minimum of syntax, the reading of the language in mass as rapidly as is consistent with thoroughness.

In the Junior and Senior classes the standard syntax of Attic prose is treated systematically, and the attempt is made to introduce the student to an appreciation of the artistic forms of Greek literature. There is in all classes some practice in reading at sight. Exercises are given in translating from English into Greek, both in order to sharpen observation of the Greek read, and as an indispensable aid to exact scholarship. Lectures on Metres are given in connection with the reading of the poets, with practice in the recitation of the Dactylic Hexameter, the Iambic Trimeter, and other common verse-forms.

For the study of geography and history, and for the archaeological illustration of the authors read, the lecture room and library are provided with a small collection of books, maps, and photographs.

1. **For beginners.** (See requirements for entrance, page 31). Benner-Smyth's Beginner's Greek Book. Xenophon's Anabasis, Books I, II, III. Six hours a week. *Professor Bocock.*

2. Courses for students whose preparation for Course 3 is deficient:

   a. Xenophon's Anabasis, Books I, II, III, with grammatical review. Three hours a week. *Adjunct Professor McWhorter.*

   b. Xenophon's Anabasis, Book III, with grammatical review. Three hours a week for the first term. *Adjunct Professor McWhorter.*

   c. Grammar. Two hours a week. *Adjunct Professor McWhorter.*

See also Special Bulletin of the Summer School.

3. Xenophon's Anabasis, Book IV. Homer, Iliad or Odyssey. Geography of Hellas. Four hours a week. *Required* unless French and German be substituted. *Professor Bocock.*

4. Selections (varying from year to year) from Homer, Herodotus, Xenophon, Lysias. History of the Literature. Three hours a week. *Required* unless French and German be substituted. *Professor Bocock.*

5. Introduction to the study of Greek Tragedy: Euripides. Selections from Plato. History of the Literature. Three hours a week. *Optional for Juniors or Seniors. Professor Bocock.*

6. The study of Tragedy (continued from course 5). Selections from the Orators and Thucydides. Summary review and extension of various parts of previous courses. Three hours a week. *Optional for Seniors. Professor Bocock and Adjunct Professor McWhorter.*

7. Selections from the New Testament. Hours to be arranged. *Optional. Professor Bocock.*

Graduate Courses are based on the attainments of Bachelors of Arts of Franklin College. For details see p. 49.

HISTORY AND POLITICAL SCIENCE.

J. H. T. McPHERSON, Professor.
W. O. PAYNE, Associate Professor.
R. P. BROOKS, Adjunct Professor.

1. **Greek and Roman History,** with a brief review of the early Oriental nations, and continued through the period of mediaeval history ending with the Treaty of Verdun. *Optional for Freshmen* who do not offer Ancient History for entrance. Three hours per

week throughout the year. Text: Myers's "Ancient History." *Associate Professor Payne.*

2. **European History.** In this course one or more characteristic periods of European History are studied intensively. The periods considered and texts used are changed from year to year. During the present session the Sixteenth and Seventeenth Centuries were studied, with Johnson's "Europe in the Sixteenth Century," and Wakeman's "The Ascendency of France," as texts. *Required of Freshmen,* except (1) those admitted to History 1, and (2) Freshmen in the B.S. in Agriculture Course. Three hours weekly throughout the year. Four sections. *Professor McPherson, Associate Professor Payne, and Adjunct Professor Brooks.*

3. **History of Georgia.** A short course embracing a sketch of the political history of the State, from the beginning up to the present time, and a study of the Civil Government of Georgia. One hour per week throughout the year. Text: McPherson's "The History and Civil Government of Georgia." *Required of Freshmen. Adjunct Professor Brooks.*

4. **Political and Constitutional History of England.** Especial attention is paid to the development of Parliament, the Cabinet, and the phases of local government—township, parish, manor, hundred, and county—with the object of laying a thorough foundation for the subsequent study of American institutions. The progress of contemporary European events is kept constantly in view. Three hours per week throughout the year. Text: Gardiner's "History of England." *Required of Sophomores.* Four sections. *Associate Professor Payne, and Adjunct Professor Brooks.*

5. **Political History of the United States.** An advanced course based upon the "Epoch Series of American History," or Elson's "History of the United States." While liberal attention is given to fact and detail, the main stress is thrown upon the philosophy of the dramatic history of our national evolution. Three hours per week, first half year. *Optional for Juniors and Seniors. Professor McPherson.*

6. **Constitutional History of the United States.** An historical and interpretative study of American institutions. Three hours a week, second half year. Text: Thorp's Constitutional History of the United States. *Optional for Juniors. Professor McPherson.*

7. **The History of the Civil Law of Rome.** Under the auspices of the faculty of the Law School a course of lectures is given each year upon the historical development of the Roman Law and its influence upon modern legal systems. Spring term. *Required of Senior Law students. Professor McPherson.*

8. **The French Revolution and Napoleonic Era.** Advanced course. *Optional for Seniors.* After a preliminary study of Euro-

pean conditions on the eve of the Revolution, the progress of events is followed in detail to the Congress of Vienna. Text: "Revolutionary Europe," by Morse Stephens. Three hours a week, first half year. *Associate Professor Payne.*

9. **Europe in the Nineteenth Century.** An advanced course. *Optional for Seniors* who have taken Course 8. The progress of events is followed in detail from the Congress of Vienna to 1878. Summary by lecture from 1878 to the present. Text: "Modern Europe," by Alison Phillips. Three hours a week, second half year. *Associate Professor Payne.*

10. **History of Georgia.** An advanced lecture course. The political, constitutional, and economic history of the State is studied, with constant reference to original sources. Three hours per week. *Optional for Juniors and Seniors. Adjunct Professor Brooks.*

For Graduate Courses, see p. 51.

14. **Economics.** A course at once introductory and advanced, designed to give mature students a grasp of the principles and a survey of the field of Economics. Text: Seligman's "Principles of Economics." Three hours per week, first and second terms. *Optional for Seniors. Professor McPherson.*

15. **Economic History of the United States.** The principles acquired in History 14 are here applied in a systematic review of the economic and financial experience of the country, and in a careful study of the leading problems of the day. Taxation, Banking, Tariff, Railway, Municipal, Trust, and Labor problems are given detailed consideration. Three hours per week, third term. *Optional for Seniors. Professor McPherson.*

MATHEMATICS.

C. M. SNELLING, Professor.
R. P. STEPHENS, Associate Professor.
R. S. POND, Instructor.

(Of the following, Courses 1, 2, 3, and 4 will be required of all students for graduation. However, those who entered in 1911 must take Course 3*a*, instead of Courses 3 and 4).

1. **Trigonometry.** A course in Plane and Spherical Trigonometry. Three hours per week for the first two terms. Texts: Murray's. *Professors Snelling and Stephens and Dr. Pond.*

2. **Graphical Algebra.** This will include a study of coördinates, the plotting of curves, and the derivation of the equations of the straight line and the circle. Three hours per week for the third term. *Professors Snelling and Stephens and Dr. Pond.*

3. **Analysis.** The work of Course 2 will be continued by the study of the equations of the conics and by an introduction to the Calculus. Three hours per week for the first half year.

4. **Advanced Algebra.** The following topics will be treated: mathematical induction, binomial theorem, complex numbers, determinants, theory of equations, partial fractions, series, and logarithms. Three hours per week for the second half year.

Note: Courses 3 and 4 will not be given till 1913-14.

3*a*. **Analysis.** An elementary course in Analytical Geometry and Calculus. Three hours per week. Text: Smith and Granville's. *Professors Snelling and Stephens and Dr. Pond.*

5. **Calculus.** A course in Differential and Integral Calculus. Three hours per week through the year. Text. Osgood's. *Dr. Pond.*

6. **Analytic Geometry.** An advanced course based on Salmon or other text of a similar character. Three hours per week for first half year. *Professor Stephens.*

7. **Differential Equations.** An elementary course in ordinary differential equations. Three hours per week for second half year. Text: Cohen's. *Professor Stephens.*

8. **Theory of Equations.** A course based on Burnside and Panton. Three hours per week for the first half year. *Professor Stephens.*

9. **Theoretical Mechanics.** An elementary course. Three hours per week for the second half year. Text: Jeans's. *Professor Stephens.*

(Note.—To those selecting mathematics as their major, Courses 6 and 7 or Courses 8 and 9 are open to election in the Junior year in addition to Course 5. However, Courses 6 and 7 will not be given in the same year as Courses 8 and 9).

LATIN.

W. D. HOOPER, Professor.
R. L. McWHORTER, Adjunct Professor.

1. **Livy; Sallust.** In addition to the reading of the twenty-first and twenty-second books, in Bechtel's Selections from Livy, and Sallust's Catiline, the syntax is studied formally, and exercises are given in translation from English into Latin, to illustrate the usages. There is also constant practice in reading at sight. Four hours per week. *Required of Freshmen. Professor Hooper, and Adjunct Professor McWhorter.*

2. **Horace**: selected Odes; **Cicero**, de Officiis, Book I. Lectures on metres are given in connection with the reading of the Odes, and practice in metrical reading is constant. There is also practice in reading at sight, and written exercises in translation from English into Latin are required weekly. Three hours per week. *Required of Sophomores. Professor Hooper, and Adjunct Professor McWhorter.*

3. **Horace:** selected Satires and Epistles; **Tacitus**, Germania and Agricola; **Pliny:** selected letters; **History of the Literature.** During the first term, the Satires and Epistles of Horace are read somewhat more rapidly, with more attention to literary quality, and the history of the literature is studied. The second and third terms are devoted to the Germania and Agricola of Tacitus, and Pliny's letters. More attention is paid to reading at sight, and some of the reading is parallel. Exercises in translation from English into Latin are continued. Three hours per week. *Optional for Juniors. Professor Hooper.*

4. Representative plays of Platus and Terence are read during the first term, both in class and in private, and there are lectures on the drama. During the second and third terms, the reading is chosen from a variety of authors not studied in the lower classes. Three hours per week. *Optional for Seniors. Professor Hooper.*

For Graduate Course see p. 49.

ENGLISH LANGUAGE AND TEUTONIC PHILOLOGY.

JOHN MORRIS, Professor.
M. D. DuBOSE, Adjunct Professor.

1. **Old and Middle English** (Phonology, Inflexions and Translation).—Text-books: Smith's Old English Grammar, Chaucer's Prologue and Knight's Tale, with lectures based on ten Brink's "Chaucers Sprache und Verskunst." Three hours a week. *Optional for Juniors. Professor Morris.*

2. **Old English Epic Poetry, Gothic and Comparative Grammar.** Text-books: Wyatt's Beowulf, Wright's Gothic Primer. Lectures based on Streitberg's "Urgermanische Grammatik." Three hours a week. *Optional for Seniors. Professor Morris.*

3. **A Graduate Course** will be offered in case there are any applications for it before October 1.

German.

1. **German 1** is a course for beginners who are conditioned in German and wish to substitute both German and French for Greek in the A.B. degree. For 1911-12 this course comprised an elementary grammar and reader, with daily written and oral exercises in parsing and in translation from English into German. Three hours per week. *Professor Morris and Adjunct Professor DuBose.*

2. **German 2** continues the work of German 1, and completes the requirement for entrance given on page 31. The course consists of translation of simple texts, and exercises in both speaking and writing German. Three hours per week. *Professor Morris and Adjunct Professor DuBose.*

3. **German 3** (*a*). Grammar completed. About 225 pages of narrative prose and 225 pages of elementary prose. Conversational work continued. Three hours per week. *Optional for Freshmen. Professor Morris and Adjunct Professor DuBose.*

3. **German 3** (*b*). A commercial course. A careful study of business terms and idiomatic phrases, through reading technical articles, writing business letters, and conversations upon matters pertaining to commercial life. Collateral reading practically the same in amount as that required in German 3 (*a*). Completion of a standard grammar. The work is based upon Kutner's Commercial German. *Adjunct Professor DuBose.*

4. **German 4** consists of an outline of the History of German Literature with extensive readings from the authors mentioned. Oral and written exercises continued. Three hours per week. *Optional for Sophomores.. Professor Morris.*

5. **German 5** is an elementary course offered as one of the Junior language options. After an oral introduction of several weeks, given exclusively in German, the class takes up a grammar or method book and works carefully through all the exercises, both oral and written. Conversation is also continued with the aid of such text books as Guerber's Märchen und Erzählungen, Wesselhoeft's German Exercises, Carruth's Reader, Stern's Studien und Plaudereien or Newson's First German Book. Three hours per week. *Optional for Juniors. Professor Morris.*

6. **German 6** is a continuation of the preceding course. The class translates from 600 to 1,000 pages of prose texts. Most of this work is done outside of the class room, but a careful examination is held on each book when completed. Practice in speaking and writing German continues throughout the year. Three hours per week. *Optional for Seniors. Professor Morris.*

ROMANCE LANGUAGES.

J. LUSTRAT, Professor.
W. T. TURK, Tutor.

French.

1. **French 1** is a course for beginners who are conditioned in French and wish to substitute both French and German for Greek. The course consists of careful drill in pronunciation, the rudiments of grammar, the study of regular and irregular verbs, the inflection and use of personal pronouns, the rudiments of syntax, dictation, easy exercises of translation from English into French, conversation, and the reading of about 275 duodecimo pages of easy prose. Three hours per week.

2. **French 2** is the continuation of course 1, for students who are conditioned in French and wish to substitute both French

and German for Greek. It will comprise the reading of about 400 pages of easy modern prose, constant practice in translating into French easy English prose, dictation, short drill in grammar and syntax, full study of all irregular verbs, and conversation. Three hours per week.

3. **French 3** consists of a study of grammatical difficulties, idioms, and provincialisms. Compositions and essays in French. Reading from 600 to 1,000 pages of prose and poetry. Continuation of translation from English into French. Conversational French. Three hours per week. *Optional for Freshmen.*

4. **French 4** consists of the reading of from 1,000 to 1,200 pages of standard French, classical and modern; compositions and essays in French; translation from English into French; study of the classical writers, with parallel reading of some of their works; study of French Literature, through texts and lectures in French; conversational French. Three hours per week. *Optional for Sophomores.*

5. **French 5** is an elementary course offered as one of the Junior language options. In this course the various inflections, forms of words, verbs, regular and irregular, and constructions of sentences are taught from the beginning, but systematic study of the grammar is not begun until the second half-year, at which time reading, translation, and writing of letters in French are also begun. About 200 pages of easy French prose are read, and there is practice in conversational French. Three hours per week. *Optional for Juniors.*

6. **French 6** is a continuation of French 5. It consists of a thorough study of grammar and syntax; translation from English into French; dictation; French composition; the reading of about 1,000 pages of standard authors, classical and modern; parallel reading; and conversational French. Three hours per week. *Optional for Seniors.*

Spanish.

1. **Spanish 1.** Three hours per week. Introductory Spanish course, based upon Natural Method and the most essential rudiments of gramar. Inflections, forms, verbs, and syntax are carefully taught from the beginning. Study of grammatical difficulties. Translation from English into Spanish. Spanish Composition. Reading of masterpieces of Spanish literature. Parallel reading. The texts chosen for reading may vary from year to year.

Italian.

Three hours per week. A one year course is offered in this subject. It is realized that a good reading knowledge of Italian can be acquired by properly prepared students in one year. With this in view, reading on preparation and at sight forms the bulk of the instruction. So much grammatical work is done as may be required for the attainment of this object. Italian grammar by Grandgent. Other texts may vary from year to year.

RHETORIC AND ENGLISH LITERATURE.

R. E. PARK, JR., Professor.
S. V. SANFORD, Junior Professor.
S. M. SALYER, Instructor.
H. A. NIX, Tutor.

1. **Composition and Rhetoric.** Detailed study and practice in construction and kind of composition. This course will involve continual practice in writing and some work in rhetorical analysis. Lectures, themes, daily exercises. *Required of Freshmen.* Three hours a week. *Professor Sanford and Mr. Salyer.*

2. **English and American Literature.** The principles of literary criticism and the practical applications of these principles to masterpieces of authors studied with reference to (1) elements of literature, (2) species of literature, (3) historical development. The object of this course will be to give to the student a general view of the history and development of literature, with more detailed knowledge of certain periods. Throughout the course much attention will be devoted to the writing of essays as a means of training the student to appreciate and to express his appreciation of the literature studied. *Required of Sophomores.* Three hours a week. *Professor Park and Mr. Salyer.*

3. **The Short-Story.** Its history, development, and structural analysis. This course is to be taken in connection with course 4. *Optional for Juniors and Seniors.* Three hours a week, first term. *Professor Sanford.*

4. **The Novel.** The development of the English novel. Study of representative novels: Scott, Dickens, Thackeray, Eliot, Hawthorne and others. Frequent writing of brief papers on subjects involving collateral readings in the authors discussed. *Optional for Juniors and Seniors.* Three hours a week, second and third terms. *Professor Sanford.*

5. **The English Drama.** Specimens of the pre-Shakesperean drama, and the study of selected plays from Marlowe to the present time. *Optional for Seniors.* Three hours a week. Preparation of papers on the sources, structure and literary qualities of the plays studied. *Professor Park.*

6. **Advanced Composition and Rhetoric.** This course is designed for those students who have already acquired a considerable knowledge of the working principles of Rhetoric, but who wish to

acquire greater ease and accuracy of expression. *Optional for Seniors.* Three hours a week, first and third terms. *Professor Sanford.*

7. **English Essayists.**. Study of the great essay writers of the eighteenth and nineteenth centuries. This course is designed especially for students of prose composition, to be taken in connection with Course 6. *Optional for Seniors.* Three hours a week, second term. *Professor Sanford.*

8. **The English Romantic Movement.** This course traces the history of English Romanticism from the first half of the eighteenth century to its culmination in the poetry of the early part of the nineteenth century. *Optional for Juniors.* Three hours a week, first and second terms. *Mr. Salyer.*

9. **Principles of English Versification.** Lectures on Poetics, the nature of English verse, from an aesthetic as well as a structural point of view, with practical exercises in scanning English metres. *Optional for Juniors.* Three hours a week, third term. *Mr. Salyer.*

PUBLIC SPEAKING.

Work in this Department is optional with all classes.

(The Department of Public Speaking is at present under the supervision of the Department of Rhetoric and English Literature).

Freshman.—Declamations and Interpretative Readings. One hour per week throughout the year.

Sophomore.—Declamation and Interpretative Readings varied with Practice and Argumentation and Debate, both oral and written. One hour per week throughout the year.

Junior.—Argumentation and Debate, with practice in the writing and delivery of Orations. One hour per week throughout the year.

Senior.—Argumentation and Debate, with practice in the writing and delivery of Orations. One hour per week throughout the year.

PHILOSOPHY AND EDUCATION.

T. J. WOOFTER, Professor.
— — ———, Associate Professor.
HOWELL B. PEACOCK, Tutor.

Philosophy.

1. **General Psychology.** An introductory course giving a survey of the field of Psychology with special emphasis on its functional and genetic phases. First half year. *Mr. Peacock and Professor ———.*

2. **Logic.** A study of both deductive and inductive logic; practice in the use of the syllogism, inductive methods, and criticisms of fallacies. Second half year. Follows Psychology.

3. **Social Philosophy.** A study of the social mind, individual and social development, and an introduction to modern social theory. First half year. *Professor Woofter.*

4. **Ethics.** A consideration of the historical, theoretical and practical phases of both individual and social ethics. Second half year. *Professor Woofter.*

5. **History of Philosophy.** A course tracing the movements of thought from the early Greek period to the present time.

6. **Advanced Psychology.** Experimental and Genetic Psychology. *Professor* ———.

Education.

1. **History and Principles of Education.**

(*a*) History of Education. The educational doctrines and practices of the great peoples of the world with special study of the modern period, (1) the development of modern educational ideals and systems, and (2) the development of secondary schools.

(*b*) Educational Psychology. An introduction to the science of education.

2. **Educational Sociology.**

A study of education from the standpoint of modern social theory. The function and organization of education in a democracy. *Professor Woofter.*

3. **The Educational Process.**

(*a*) General Principles of Teaching, School Management, School Hygiene.

(*b*) The Teaching of special subjects in the High School and College. *Professor* ———.

4. **School Administration and Supervision.**

(*a*) The development of the different types of schools and systems.

(1) The University and College.
(2) The Secondary School.
(3) The Elementary School.

(*b*) Administration and supervision in the United States.

PHYSICS AND ASTRONOMY.

L. L. HENDREN, Professor.
E. T. MILLER, Instructor.

1. **Elementary Physics.** Text-book, Millikan and Gale's First Course in Physics. Three hours per week recitation and two hours per week laboratory work. *Required of all Sophomores* who have not received credit for entrance of one unit in Physics.

2. **General Physics.** A course in Mechanics, Molecular Physics, Electricity and Magnetism. Prerequisite, Physics 1, or one unit entrance work in Physics. Text-book, Kimball's College Physics, with special laboratory notes. Three hours per week recitation and two hours per week laboratory work. *Required of all Sophomores* who have received credit for entrance of one unit in Physics. *Optional for Juniors and Seniors.*

3. The same course as Physics 2, with two additional hours per week of laboratory work. This course may be taken instead of Physics 2 by those who desire the additional laboratory training.

4. **General Physics.** Wave Motion and Physics of the Ether, including Sound, Light, Heat and Electromagnetic Waves. Prerequisite Physics 2 or its equivalent. Text-book, Kimball's College Physics with special laboratory notes. Three hours per week recitation and two hours per week laboratory work. *Optional for Juniors and Seniors.*

5. **Advanced Physics.** Lectures, Demonstrations, Recitations, and laboratory work in the Electromagnetic Theory of Light, the Discharge of Electricity through Gases and the Electron Theory of Electricity and Matter. Three hours per week recitation and two hours per week laboratory work. Prerequisite Physics 4. *Optional for Seniors.*

Astronomy 1. Text-book, Moulton's Introduction to Astronomy. Lectures and recitations designed to give the student a general knowledge of Astronomy. Opportunity will be given for observation with a good three and a half inch telescope. Three hours per week recitation first half year. *Optional for Seniors.*

Note.—A laboratory fee of $3.00 will be charged for courses 1, 2, 3, and 4.

BOTANY.

J. M. READE, Professor.

The courses in Botany are optional studies for candidates for the degree of A.B. For a statement of the work offered, see the State College announcement.

GEOLOGY.

Vacant.*

1. **General Geology.** Three hours per week, second half-year. The course of instruction is at first a general one, embracing the study of the distinguishing properties of minerals and common rocks, the decay of rocks, and the formation of soils. Following this is a more extended course of Structural, Dynamical, and Historical Geology.

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*Temporarily in charge of the Professor of Chemistry.

COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS

I. THE COLLEGE OF SCIENCE AND ENGINEERING.

STAFF OF INSTRUCTION.

D. C. BARROW, LL.D., Chancellor.

A. M. SOULE, Sc.D., President, and Dean of the College of Agriculture.

H. C. WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry, and Terrell Professor of Agricultural Chemistry.

J. P. CAMPBELL, Ph.D., Professor of Biology.

C. M. STRAHAN, C. and M.E., Professor of Civil Engineering.

J. H. T. McPHERSON, Ph.D., Professor of History and Political Science.

C. M. SNELLING, A.M., Sc.D., Professor of Mathematics.

W. D. HOOPER, A.M., Professor of Latin.

J. MORRIS, A.M., Professor of English Language and German.

J. LUSTRAT, Bach. ès Lett., Professor of Romance Languages.

R. E. PARK, A.M., Litt.D., Professor of Rhetoric and English Literature.

T. J. WOOFTER, Ph.D., Professor of Philosophy and Education.

J. S. STEWART, A.M., Professor of Secondary Education.

S. V. SANFORD, A.B., Junior Professor of Rhetoric and English Literature.

L. L. HENDREN, Ph.D., Professor of Physics and Astronomy.

J. M. READE, Ph.D., Professor of Botany.

J. A. ATKINS, First Lieut. 16th U. S. Infantry, Commandant of Cadets.

U. H. DAVENPORT, B.S., Associate Professor of Electrical Engineering.

E. L. GRIGGS, Associate Professor of Civil Engineering.

W. O. PAYNE, A.M., Associate Professor of History and Political Science.

H. V. BLACK, Ph.D., Associate Professor of Chemistry.

R. P. STEPHENS, Ph.D., Associate Professor of Mathematics.

R. P. BROOKS, B.A., (Oxon.), Adjunct Professor of Georgia History and Sociology.

R. L. McWHORTER, A.M., Adjunct Professor of Latin and Greek.

M. D. DuBOSE, A.M., Adjunct Professor of English Language and German.

S. M. SALYER, A.B., Instructor in Rhetoric and English Literature.

R. S. POND, Ph.D., Instructor in Mathematics.

E. T. MILLER, B.S., Instructor in Physics.

C. A. WELLS, M.S., Instructor in Chemistry.

W. T. TURK, A.B., Tutor in Romance Languages.

H. A. NIX, A.B., Tutor in Rhetoric and English Literature.

H. B. PEACOCK, B.S., Tutor in Philosophy and Education.

SCHOOLS OF THE COLLEGE OF SCIENCE AND ENGINEERING.

(Arranged in the order of official seniority of the professors).

Chemistry.
Biology.
Civil Engineering.
History and Political Science.
Mathematics.
Latin Language and Literature.
English Language and German.
Romance Languages.
Rhetoric and English Literature.
Philosophy and Education.
Physics and Astronomy.
Botany.
Electrical Engineering.
Geology.

In this College but one degree is given, that of Bachelor of Science. It is believed that this degree should be, in all cases, the certificate of satisfactory completion of a proper course of mental training which, although given by divers arrangements of studies, should be equally severe, and, therefore, without discrimination as to title.

DEGREE.

The undergraduate degrees offered by the College of Science and Engineering are: Bachelor of Science (General); Bachelor of Science (Civil Engineering); Bachelor of Science (Electrical Engineering); Bachelor of Science (Architecture). Options must be selected after conference with and with the consent of the President of the College.

General provision, applicable to all courses and classes: In Physics, Chemistry, Botany, and Zoology laboratory work (two hours for one) may be substituted for lecture or recitation hours, at the option of the professor. One laboratory period of two hours per week is allowed for each course of three hours per week.

BACHELOR OF SCIENCE (General).

The requirements for this degree, outlined below, went into effect with the session 1911-'12. Students in classes higher than Freshman will graduate under the requirements as stated in the Register for the session 1910-'11.

1. For admission to the University as a candidate for the degree of Bachelor of Science (General) fourteen units are required, as follows: English 3, Mathematics 2½, History 2, German or French 2, Elective 4½.

2. For graduation from the University with the degree of Bachelor of Science (General), a student must complete sixty-six hours, not inclusive of one hour a week of Military Science required of all Freshmen, an hour being used to signify one recitation a week throughout the college year, or its equivalent. (In addition, certain parallel reading, laboratory work, preparation of essays, or similar exercises are required, as indicated in the announcements of the several departments). Of these sixty-six hours, 18 are assigned to Freshman, 18 to Sophomore, 15 to Junior and 15 to Senior years, respectively. Not more than 12 hours (exclusive of Freshman hours) may be counted in any one department, and at least 18 hours (exclusive of Freshman hours) must be taken from Group II, as noted below.

3. Not later than the beginning of the Junior year the student must select, with the advice and approval of the head of the department, some one department of science in Group II, in which his Major subject is to be taken, a department, also in Group II, in which a Minor subject is to be taken, and a department, not in Group II, in which a second Minor is to be taken. The work of a Major subject shall consist of at least 9 hours in one department, exclusive of Freshman hours. The student's plan of studies and any change therein must be approved by the head of the department in which the Major subject is taken.

4. The subject requirements for the degree are as follows:

English 1 and 2	6	hours.
Mathematics 1, 2 and 3	6	"
History 2, ...	3	"
Graphics D-1 and D-2	2	"
Georgia History	1	"
Physics 1, or Physiology	3	"
Latin, French or Spanish, German, 3 hrs. in each of two	12	"
A Major from Group II, ...	9	"
A Minor from Group I or III, .	6	"
Additional subject from Group II	3	"
Electives, ...	9	"
Total, ...	66	hours.

5. The arrangement of subjects for the several years is as follows:

Freshman.

English 1	3	hours.
Mathematics 1, 2	3	"
History 2, ...	3	"
Georgia History	1	"
Graphics D-1 and D-2	2	"
Latin 1, or French 3, or German 3, ...	3	"
Physics 1,** or Physiology** .	3	"
	18	hours.
Military Science	1	"

** Physics 1 must be taken by those who have not offered one full unit of Physics for entrance. Physiology must be taken by those who have offered one full unit of Physics for entrance.

Sophomore.

English 2	3	hours.
Mathematics 3 (*a*)	3	"
Latin 2, or French 4, or German 4, ...	3	"
Physics 2, Chemistry 2, Zoölogy 1, Botany 1, (two courses)	6	"
Group II, or History, or Psychology, or French 5 or Spanish 1, or German 5, . .	3	"
Total.	18	hours.

Junior and Senior.

To complete requirements . .	30	hours.

6. The Groups:

Group I.—Language-Literature. Latin, French, German, English Language, English Literature, Spanish.

Group II.—Natural Science-Mathematics. Physics, Chemistry, Zoölogy, Botany, Mathematics.

Group III.—History-Philosophy-Social Science. History, Economics, Political Science, Sociology, Psychology, Philosophy, Education.

7. Electives.

General electives may be taken, with the advice and consent of the head of the department in which the Major subject is taken, and of the Dean of the University, from courses offered in the University. Permissive courses will be listed annually by the Faculty on recommendation of the Committee on Curriculum, and filed in the office of the Dean.

BACHELOR OF SCIENCE (Civil Engineering).

The degree of Bachelor of Science in Civil Engineering is given on completion of the four years course outlined below. The studies required have been chosen so that the student will receive a sound, broad mental development in addition to his special knowledge of engineering. The instruction in engineering subjects includes a large amount of field practice and office drafting and computation. Thorough application of principles to designing, laying out, and erecting engineering structures is required.

Freshman.		**Sophomore.**	
Graphics D-1 & D-2, ...	3	Civil Engineering A-1, . . .	3
English 1, ...	3	Graphics D-3, ...	2
History 2, ...	3	English 2, ...	3
Georgia History	1	Mathematics 3 (*a*)	3
Mathematics 1, 2	3	Physics 4, ...	3
Physics 3, ...	4	Chemistry 2, ...	3
Military Science	1		
	18		17

Junior.		**Senior.**	
Chemistry 4, 5, or 8, ...	3	Astronomy and Geology . .	3
Civil Eng. B-1, & B-2 or B-3,	6	Civil Eng. C-1,-2,-3,-4, . . .	6
Graphics D-4, ...	2	Graphics, D-5, ...	2
Electrical Engineering 1, . .	3	Electrical Engineering 3, . .	3
Mathematics 5, ...	3	Mathematics 6, 7, ...	3
	16		17

Note.—Candidates for this degree who do not offer two years of French or German or Spanish for entrance will take the language work in the Freshman and Sophomore years; and will take Physics 3 in the Sophomore year, Chemistry 2 and Physics 4 in the Junior year, and Chemistry 4, 5, or 8 in the Senior year.

BACHELOR OF SCIENCE (Architectural Engineering).

Freshman.		**Sophomore.**	
Graphics D-1 & D-2, ...	3	Civil Engineering A-1, . . .	3
English 1, ...	3	Graphics D-3, ...	2
History 2, ...	3	English 2, ...	3
Georgia History	1	Mathematics 3 (*a*)	3
Mathematics 1, 2	3	Physics 4, ...	3
Physics 3, ...	4	Chemistry 2, ...	3
Military Science	1		
	18		17

Junior.	
Chemistry 4, 5, or 8,	3
Mathematics 5,	3
Graphics D-4,	2
French 5,	3
or	
German 5,	3
Architecture B-4,	3
Civil Engineering B-1,	3
	17

Senior.	
Astronomy and Geology	3
Graphics D-5,	2
French 6,	3
or	
German 6,	3
Civil Engineering C-1,-5,	3
Civil Engineering C-6,	3
	17

BACHELOR OF SCIENCE (Electrical Engineering).

The course in Electrical Engineering is specially designed to give to those who contemplate making this subject their life-work a broad and well-rounded academic training, supplemented by a course in Electrical Engineering proper, which is as full and thorough as the time allowed will permit. Students are strongly urged to lay a broad foundation for electrical work, and to finish their course at some higher institution, after which they are advised to enter the shops of some electrical company before entering upon their profession. While some of the men trained here have entered upon a successful career in electrical work without studying further elsewhere, we believe the best and most lasting results will be obtained by following the plan outlined above.

Freshman.	
Graphics D-1 & D-2,	3
English 1,	3
History 2,	3
Georgia History	1
Mathematics 1, 2	3
Physics 3,	4
Military Science	1
	18

Sophomore.	
Civil Engineering A-1,	3
Graphics D-3,	2
English 2,	3
Mathematics 3 (*a*)	3
Physics 4,	3
Chemistry 2,	3
	17

Junior.	
Chemistry 4, 5, or 8,	3
Civil Eng. B-1, and -2 or -3,	6
Electrical Eng. 1, 2,	5
Mathematics 5,	3
	17

Senior.	
Astronomy and Geology	3
Civil Eng. C-1, -2,	3
Graphics D-5,	2
Electrical Eng. 3, 4,	5
Mathematics 6, 7,	3
	16

Note.—Candidates for this degree who do not offer two years of French or German or Spanish for entrance will take the language work in the Freshman and Sophomore years; and will take Physics 3 in the Sophomore year, Chemistry 2 and Physics 4 in the Junior year, and Chemistry 4, 5, or 8 in the Senior year.

COURSES OF INSTRUCTION

CHEMISTRY.

H. C. WHITE, Professor.
H. V. BLACK, Associate Professor.
C. A. WELLS, Instructor.

The following courses are offered:

1. **Elementary Chemistry.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, Outlines of Chemistry.

2. **Inorganic Chemistry; College Course.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, Outlines of Chemistry.

3. **Organic Chemistry; College Course.** Three hours per week of lectures and recitations and two laboratory periods for three terms. Text: Remsen; Organic Chemistry.

4. **Industrial (including Agricultural) Chemistry.** Three hours per week of lectures and recitations for three terms. Texts: Professor's Notes; Thorpe; Industrial Chemistry.

5. **Physical Chemistry.** Three hours per week of lectures and recitations and two laboratory periods for three terms.

6. **Sanitary Chemistry.** A course in sanitary analysis for students of sanitation, sanitary engineering, medicine and of public health laboratory technique. One hour of lectures and recitations and four laboratory periods per week for three terms. Open to students who have had Chemistry 2 and Biology 1 or the equivalent of these.

7. **Pharmaceutical Chemistry.** Three hours per week of lectures and recitations and two laboratory periods for three terms. Text: Coblentz and Sadtler; Pharmaceutical Chemistry.

8. **Analytical Chemistry.** About two-thirds of this course is devoted to qualitative analysis, on the completion of which quantitative analysis is begun. Six laboratory periods per week for three terms. Texts: W. A. Noyes; Qualitative Analysis; Morse; Exercises in Quantitative Chemistry.

9. **Analytical Chemistry.** Quantitative. Continuing the work of course 8, a thorough foundation is laid in the scientific principles of quantitative analysis, followed by more detailed work in the analysis of iron and steel, of iron ores, of fertilizers, or in metallurgy and assaying, or in such other branches of analysis as the needs of the individual student may suggest. Six laboratory periods per week for three terms.

In connection with courses 3, 5, and 9, work will be offered in the History of Chemistry, using Meyer's History of Chemistry as text.

The following fees will be charged for chemicals used in the laboratories: In courses 1, 2, 3, 5, 6, and 7, $2.50; courses 8 and 9, $10.00. Necessary apparatus is furnished the student and breakage must be paid for at the end of the course.

Four lecture rooms and nine laboratories, appropriately furnished and equipped, are provided in Terrell Hall, which is occupied exclusively by the Schools of Chemistry and Pharmacy.

BIOLOGY.

JOHN P. CAMPBELL, Professor.
PAUL L. HUDSON, Student Assistant.

In this School, the following courses are offered for the ensuing year:

1. **Animal Physiology.** The object of this course is in part to give the student such knowledge of his own body and its workings as every well educated man should have, and also to illustrate the methods of science. To these ends, Anatomy and Histology are considered as far as necessary, but special stress is laid upon the functional activities of the tissues and organs, and the conditions necessary for their healthy activities. Text: Huxley's Lessons in Elementary Physiology. Three hours per week. *Optional for Freshmen.*

3. **General Invertebrate Zoölogy.** This course is based upon the laboratory study of a selected series of types representing most of the main divisions of the animal kingdom. Arthropods are studied in the first term, Mollusca, Annulata, and the smaller phyla in the second, and Echinoderms, Coelentera, and Protozoa in the third. The morphological point of view predominates, but attention is also given to physiology, ecology, embryology, and classification, and in addition, each group is made to illustrate some important theoretical question to which it is especially adapted. Three hours weekly with laboratory work additional. *Optional for Sophomores, Juniors and Seniors.*

4. **General Vertebrate Zoölogy.** This is the continuation of course 2 and the same general methods prevail. The Protochordata are first taken up with a discussion of the theoretical questions that they involve, after which the various vertebrate classes are considered, attention being given to structure, ecology, classification, economic problems, etc. One hour weekly with laboratory work additional. *Optional for Seniors* who have completed course 3.

5. **Morphology of Vertebrates.** In this course attention is given to the Embryology and Comparative Anatomy of Vertebrates as well as to the leading theoretical questions which the study of this group presents. The laboratory work accompanying consists of additional vertebrate dissections and work in Histology and Embryology. Two hours weekly. *Optional for Seniors.*

6. **Animal Physiology.** This course is planned for students who have a good knowledge of elementary Physiology, equal in scope to that given by course 1, and who have in addition a good working knowledge of Physics and Organic Chemistry. Special topics are taken up for fairly exhaustive treatment, and the effort is made to bring the student into touch with the latest developments of the subject. The laboratory work consists in part of Physiological Chemistry, and in part of Experimental Physiology. Three hours weekly with laboratory work additional during the second and third terms. *Optional for Seniors.*

Note.—Seniors who have completed courses 1 and 3 may take either 4 and 5, or 4 and 6.

6. **Advanced Animal Physiology.** This course is based upon Howell's Text Book of Physiology, supplemented by the reading of selected portions of other works, and original sources in current physiological journals. In addition to this is laboratory work in Physiological Chemistry and Experimental Physiology. Three hours weekly with six hours laboratory work. Rated as a Graduate Major.

Laboratory Work. The department possesses special laboratories for each of the courses given, (see page 21), and good progress has been made toward their equipment. The apparatus for general microscopical work and Histology is nearly all that could be desired, and a good beginning has been made in getting together apparatus for experimental work in Animal Physiology.

By special action of the faculty, an extra laboratory period of two hours weekly is required of each student in the Junior and Senior classes in addition to the three hours of class room work. Extra time for laboratory work is secured whenever needed for an entire class by substituting a two hour laboratory period for a class hour. The laboratories are open daily from 9 A. M. to 5 P. M., and students having the time and inclination are encouraged to devote extra time to their work.

A fee of $2.50 is charged for each laboratory course, for which the student is furnished a microscope and everything needed except dissecting instruments and drawing materials.

CIVIL ENGINEERING.

C. M. STRAHAN, Professor.
E. L. GRIGGS, Associate Professor.
J. C. KOCH, Adjunct Professor.
(Student Assistants: C. D. Flanigen, and R. T. Goodwyn).

The School of Civil Engineering offers instruction in the various branches of Civil Engineering, Architecture, and Graphics, and endeavors to aid students in becoming skillful draftsmen, accurate surveyors, careful designers, and practical constructors. The instruction by text-book and lectures is supplemented by a large amount of field practice, laboratory and draughting room exercises, and original investigations and essays.

The courses in this department lead to the degrees of Bachelor of Science in Civil Engineering and Architectural Engineering. Upon satisfactory completion of partial courses, certificates will be issued to students, covering the work done. It is not deemed advisable at present to create a special degree in Highway Engineering, but with the approval of the Faculty mature students completing special work in highway construction will be given certificates thereon.

Civil Engineering Courses.

A-1. **Elementary Surveying.** A course covering the use, care, and adjustment of surveying instruments, methods of surveying by chain alone, by compass, and by transit; the methods of platting and computing areas, and volumes; the variation of the magnetic needle; problems in parting off and dividing lands; the use of the Y level and precise leveling; plane table and stadia surveying, and the use of the solar transit. Three hours per week. *Required of Sophomores in all Engineering courses.* Text: Breed and Hosmer's Surveying. *Professor Griggs.*

B-1. **Materials of Construction.** A course of lectures and laboratory work covering the occurrence, preparation, and manufacture of the important structural materials, to-wit: lumber, its seasoning, inspection, and preservative treatment; stone, natural and artificial, including brick, terra cotta, cements, concrete blocks, etc.; the metals, including cast iron, wrought iron, steel, copper, tin, lead, zinc, aluminum, and alloys as used by engineers; uniting materials, covering limes, mortars, cements, bituminous binders, joinery, rivetting, etc. First and second terms. The third term is given to Foundations and Masonry structures, the course being based on Baker's Masonry Construction. Three hours per week. *Required of Juniors in all Engineering courses. Professor Strahan.*

B-2. **Railroad Engineering.** A course covering reconnoissance, preliminary and location surveys, curves, spirals, switches, etc., cross-sectioning, computations and estimates, railroad economics and the various other problems involved in the complete engineering of railways. Three hours per week. *Optional for Juniors in Civil and Electrical Engineering.* Text: Webb's Railroad Construction. Lectures. *Professor Strahan.*

B-3. **Highway Engineering.** A course of lectures, laboratory and field problems covering the surveys, location, drainage, grading and surfacing of public highways and city streets. The preparation of maps, profiles, and estimates. Paving methods and specifications. Road finances, equipment, and labor. Three hours per week. *Optional for Juniors in Civil and Electrical Engineering. Professor Koch.*

B-4. **Elements of Architecture.** A course of lectures and problems covering the classical orders, Gothic and Romanesque Forms. Sketches from memory required. Parallel reading and essays on the history of architecture. References: Hamlin, Fletcher, Ferguson. Three hours per week. *Required of Juniors in Architectural Engineering. Professor Strahan.*

C-1. **Applied Mechanics.** A course covering the fundamental principles of stresses and strains, the effect of forces and moving loads upon framed and masonry structures, the elastic resistances of materials and the principles governing structural design of bridges, roofs, arches. First and second terms. Three hours per week. *Required of Seniors in all Engineering courses.* Text: Lanza's Applied Mechanics. *Professor Strahan.*

C-2. **Hydraulics.** A course in theoretical and practical hydraulics covering hydrostatics and hydrodynamics. Measurements of velocity and discharge, weirs, nozzles, orifices, meters, turbines, stream flow, etc., and the utilization of streams for power purposes. First Term. Three hours per week. *Required of Seniors in Civil and Electrical Engineering courses.* Text: Russell's Hydraulics. Lectures. *Professor Strahan.*

C-3. **Bridges, Arches, and Reinforced Concrete.** A course covering bridges and arch and concrete masonry design. A practical course of lectures and design problems on highway bridges, reinforced arch bridges, culverts, and bridge inspection. Three hours per week. Second and Third terms. Three hours per week. *Required of Seniors in Civil Engineering course. Professor Koch.*

C-4. **Water Supply and Sewerage.** A course of lectures and problems on water supply, sewerage, garbage disposal, etc., including the examination and purification of public water supplies and the methods of sewerage purification. Parallel reading: Hazen, Fuertes, Hering, and current reports. Third term. Three hours per week. *Required of Seniors in Civil Engineering. Optional in other Engineering courses. Professor Strahan.*

C-5. **Heating and Ventilation.** A course covering the various methods of heating and ventilation including low pressure and high pressure steam, the vapor system, hot air furnaces, direct and indirect radiation, etc. Third term. Three hours per week. *Required of Seniors in Architectural Engineering.* Text: Baldwin, Heating and Ventilation. Lectures. *Professor Griggs.*

C-6. **Architectural Design.** A course in designing modern structures with necessary plans, elevations, sections, and detail drawings, with specifications. Simpler problems are given leading up to more complex masonry structures. Three hours per week, including Reinforced Concrete under C-3. *Required of Seniors in Architectural Engineering. Professor Griggs.*

Courses in Graphics.

D-1. **Elementary Graphics.** The first part of this course includes the construction of simple geometrical figures, designed to teach the use of the instruments and habits of neatness and precision. The work in projection follows. The course is illustrated by models, and written examinations are held at intervals. Practice in lettering is given throughout the course. With this course are given also two hours per week of free-hand drawing. Two hours per week. *Required of all B.S. Freshmen.* Text: "Elements of Drawing," Strahan and Griggs. *Professor Griggs.*

D-2. A course covering tracing and blue-printing, details of framing, riveted members, trestles, bridges, etc., according to standard symbols used in shop and construction drawings. One hour per week. *Required of Freshmen applying for any of the Engineering degrees. Professor Griggs.*

D-3. **Descriptive Geometry.** This course is open to students who have taken Course D-1 or its equivalent. The problems are both demonstrated and drawn on uniform plates neatly lettered. Intersections of solids, shades and shadows are studied. Original problems are given. Two hours per week. *Required of Sophomores in Engineering courses.* Text: Phillips and Millar. *Professor Griggs.*

D-4. **Advanced Graphics.** This course includes Topographical maps of field surveys showing full details, measured drawings of buildings, principles of mathematical perspective with problems and an elaborate rendered perspective of some building. Two hours per week. *Required of Juniors in Civil and Architectural Engineering courses. Professor Griggs.*

D-5. **Graphic Statics and Structural Design.** A course in determination of stresses in structures by graphical methods and in designing steel structures such as built girders, knee-braced roof trusses, and pin-connected bridge truss. Text: Haskin's Graphic Statics, Thompson's Bridge and Structural Design. Two hours per week. *Required of Seniors in in all Engineering courses. Professor Strahan.*

Special United States Survey Course. A course for applicants for positions in the various Government Survey Corps. Two hours per week. Open to special students sufficiently prepared in the general engineering subjects.

Graduate Courses. For the degrees of Civil Engineer and Civil and Mining Engineer the applicant pursues advanced courses, having in view the special branch of the profession which he intends to follow. Original investigation is made a prominent feature of these courses.

Note.—For schedule of studies leading to the degree of Bachelor of Science in Civil Engineering, see page 82.

Good Roads Department.

This department of the School of Civil Engineering has been organized for the purpose of giving direct instruction and field assistance to the road authorities of the counties of Georgia. The Trustees have recognized the importance of the road movement and have added an experienced officer to the staff of the School in order that special courses of instruction may be given at the University, and that upon request of county officials, visits for advice and demonstration may be made to counties requesting them. By writing to any of the officers of the School of Civil Engineering, full information and blank forms of application for assistance will be furnished.

Advice and Assistance. The visits to counties are made free of charge except where the service rendered is of long duration, and then the traveling and field expenses of the officer are the only cost.

Laboratory Examination of Road Materials. The department has established a road material laboratory for the examination of sand-clay, top-soil, gravel, and similar road building materials. Samples sent by county road authorities will be examined free of charge and report made indicating the suitability of the material for surfacing roads. Send for printed instructions on how to take such samples.

County road officials are invited to come to the University or write to the department at any time when they desire information or assistance, and to take advantage of the special or regular courses of instruction offered below. These courses are also open to mature students who desire to obtain special instruction in road building.

Special Ten-Day Course on Highway Building. By writing to the department, any road official in Georgia can arrange to receive, at the University, ten days' instruction in relocation, grading and surfacing of highways, with especial reference to the use of top-soil and sand-clay construction, the equipment of road construction forces, handling of labor, and other methods which the department in its experience has found practical and effective. Registration fee, $1.00. No tuition fees.

One-Year Course on Highways. Road officials and mature students who are employed, or are looking forward to employment in county road work will be allowed to pursue a special one-year course in Highways. No entrance examination is required for this course. This course will include training in the use and care of surveying instruments, surveys, preparation of maps, profiles, estimates, selection of road surfacing materials based on field and laboratory examination, field instruction in laying out roads, grading, drainage and surfacing of roads, organization of labor, equipment, accounting, contracts and other economic problems connected with road construction.

The distribution of time required of the student is as follows:

Road Construction Methods, . . .	3 hours per week.
Elementary Surveying, ...	3 “ “ “
Drawing and Platting, ...	3 “ “ “
Laboratory Examination of road Materials and Field Location of Roads, etc., ...	3 “ “ “

Other subjects in the University will be open to such students. No tuition fees are charged. Earnest men will find this course very valuable in adding to their efficiency and fitting them for service in road building.

When prepared by previous training, special students in road engineering will be permitted to take the regular courses A-1, B-2, and C-3, as described on pages 87-88.

HISTORY AND POLITICAL SCIENCE.

For courses see page 67.

MATHEMATICS.

For courses see page 69.

LATIN.

For courses see page 70.

ENGLISH LANGUAGE AND GERMAN.

For courses see page 71.

ROMANCE LANGUAGES.

For courses see page 72.

RHETORIC AND ENGLISH LITERATURE.

For courses see page 74.

PHILOSOPHY AND EDUCATION.

For courses see page 75.

PHYSICS AND ASTRONOMY.

L. L. HENDREN, Professor.
E. T. MILLER, Instructor.

1. **Elementary Physics.** Text-book, Millikan and Gale's First Course in Physics. Three hours per week recitation and two hours per week laboratory work. *Required of all B.S. General and B.S. Eng. Freshmen who have not received credit for entrance of one unit in Physics.*

2. **General Physics.** A course in Mechanics, Molecular Physics, Electricity and Magnetism. Prerequisite, Physics 1 or one unit entrance work in Physics. Text-book, Kimball's College Physics with special laboratory notes. Three hours per week recitation and two hours per week laboratory work. *Optional for Sophomores as the first year of a Minor in Physics. Optional for Juniors and Seniors.*

3. The same as **Physics 2** with two additional hours of laboratory work per week. *Required of B.S. Engineering Freshmen. Optional for B.S. General Sophomores, Juniors and Seniors.*

4. **General Physics.** Wave Motion and Physics of the Ether; including Sound, Light, Heat and Electromagnetic Waves. The laboratory work will include precise measurements in Electricity and Magnetism. Prerequisite, Physics 2 or its equivalent. Text-book, Kimball's College Physics with special laboratory notes. Three hours per week recitation and two hours per week laboratory work. *Required of B.S. Engineering Sophomores. Optional for Juniors and Seniors.* This course, with Physics 2 or 3, constitutes a Minor Course in Physics, and with Physics 2 or 3 and 5 constitutes a Major Course.

5. **Advanced Physics.** Lectures, Demonstrations, Recitations and laboratory work in the Electromagnetic Theory of Light, the Discharge of Electricity through Gases, and the Electron Theory of Electricity and Matter. Three hours per week recitation and two hours per week laboratory work. Prerequisite, Physics 4. *Optional for Seniors.* This course, with Physics 2 or 3, and 4, constitutes a Major in Physics.

Astronomy 1. Text-book, Moulton's Introduction to Astronomy.

Lectures and recitations designed to give the student a general knowledge of Astronomy. Opportunity will be given for observational work with a good three and a half inch telescope. Three hours per week recitation first half year. *Required of B.S. Engineering Seniors. Optional for other Seniors.*

Note.—A laboratory fee of $3.00 will be charged for Courses 1, 2, 3, and 4.

BOTANY.

J. M. READE, Professor.

The following courses are offered under the conditions prescribed in the curricula of Science, Agriculture, and Forestry.

A laboratory fee of $2.50 is charged for each course.

1. **Elementary Botany.** An introductory course dealing with the main facts of the biology and structure of plants. Prerequisite to all other work in the subject. Class and laboratory periods both twice weekly.

2. **Morphology and Development of Higher Plants.** A general account of the mosses, ferns and seed plants. Course 1 is prerequisite. Class and laboratory periods both twice weekly.

6. **Morphology and Taxonomy of the Fungi.** A general account of the structure, development and classification of the Eumycetes. Course 1 is prerequisite. Class and laboratory periods both twice weekly.

9. **Physiology of Vascular Plants.** A field and laboratory study of the physiological processes of higher plants and their accomplishment under environmental conditions. Courses 1 and 2 are prerequisite. Class and laboratory periods both twice weekly.

10. **Ecology.** A geographical and dynamical study of vegetation. Courses 1, 2 and 9 are prerequisite.

The remaining courses are announced and may be given if conditions warrant it.

3. **Histological Methods.** A laboratory course in the methods of preparing and studying microscopic plant structures. A half course. Chamberlain, Methods in Plant Histology. Course 1 is prerequisite.

4. **Mycological Methods.** A laboratory course in the methods of cultivating and studying bacteria and fungi. A half course. Course 1 is prerequisite.

5. **Morphology and Biology of Bacteria.** A general account of the group. Course 1 is prerequisite.

7. **Morphology and Biology of the Algae.** A general account of the group. Course 1 is prerequisite.

8. **Fungi and Plant Diseases.** A laboratory and field study of Bacteria, Myxomycetes and Eumycetes in relation to plant diseases. Courses 1, 4 and 6 are prerequisite.

11. **Physiology of Reproduction.** A lecture course dealing with the facts and theories of variation and inheritance.

ELECTRICAL ENGINEERING.

U. H. DAVENPORT, Associate Professor.

1. **Electrical Machinery and Apparatus.** A study of the theory of direct currents and their application to electrical machinery and engineering auxiliaries—meters, storage batteries, transmission lines, distribution systems, electric lights, etc. Three lecture and quiz periods and one double period in the laboratory each week. The laboratory work is partly in electrical measurements (supplementing the Physics course in electrical measurements), and partly in dynamo operating and testing. The course includes also a large number of problems, which all students are required to work and file each week for grading by the instructor. Texts: Franklin & Esty's "Elements of Electrical Engineering—Direct Currents," and Franklin & Esty's Dynamo Laboratory Manual, Vol. I. *Required of Juniors in the Civil Engineering, and the Electrical Engineering courses.*

2. (*a*) **Mechanical Engineering of Power Plants.** A study of Prime Movers and Power Plant Auxiliaries—steam engines and boilers, steam turbines, gas and oil engines, water wheels and windmills, condensers, economizers, feed water heaters, pumps, piping, etc. The course will include visits to plants where the various types of prime movers are found in operation. Laboratory work with steam, gas, and gasoline engines will be required. Two hours per week, first and second terms. *Required of Juniors in the Electrical Engineering course.*

(*b*) **Alternating Currents.** A study of the principles of alternating currents as applied to simple and complex circuits containing resistance, inductance, and capacity. Both the analytic and the graphic method of treatment are studied. Problems and laboratory work are included. Two hours per week for the third term. *Required of Juniors in the Electrical Engineering course.*

3. **Electrical Machinery and Apparatus—Alternating Currents.** A continuation of course 1. A study of the theory of alternating currents and their application to electrical machinery and engineering auxiliaries: transformers, meters, lights, transmission lines, distributing systems, etc. Three lecture and quiz periods and one double period in the laboratory each week. The course includes also a large number of problems, which all students are required to work and file each week for grading by the instructor.

Texts: Franklin & Esty's "Elements of Electrical Engineering—Alternating Currents," and Korapetoff's Experimental Electrical Engineering. *Required of Seniors in the Civil Engineering and the Electrical Engineering courses.*

4. (*a*) **Electric Power Distribution.** A course based on Dr. Louis Bell's text bearing that title, and supplemented by laboratory tests in the Dynamo Laboratory, and by a thorough study of the water power and the steam plants and the system of distribution of the Athens Railway and Electric Co. Two hours per week, first and second terms. *Required of Seniors in the Electrical Engineering course.*

(*b*) **Alternating Current Motors.** Text: McAllister's "Alternating Current Motors." Two hours per week, third term. *Required of Seniors in the Electrical Engineering course.*

6. **Night Course in Electrical Engineering.** A special course of lectures given each Tuesday and Thursday night throughout the college year. The grade and nature of the course is adapted to the needs of those attending it. It is intended primarily for electricians, wiremen, dynamo tenders, mechanics, and others who are interested in electrical work, but who are unable to attend the regular course in the University. By special action of the Prudential Committee of the Board of Trustees, the usual University fees are not required of those registering for this course only. A registration fee of One Dollar is required. If laboratory work is given, an additional fee of Three Dollars will be required. The text for the session 1912-13 will be Timbie's Elements of Electricity.

GEOLOGY.

For courses see page 77.

THE COLLEGE OF AGRICULTURE

HISTORICAL STATEMENT.

The Georgia State College of Agriculture was organized in accordance with the Act of the General Assembly of the State passed July 21st, 1906. This institution is an outgrowth of the State College of Agriculture and the Mechanic Arts, which was founded as a coördinate department of the University of Georgia on May 1, 1872, upon the transference of the funds arising from the sale of Georgia's interest in the landscrip to the Trustees of the University. Its further endowment was made possible from time to time by additional appropriations provided through the generosity of the federal government. The State, however, realizing that agriculture represented its principal industry, decided by legislative enactment to differentiate and endow the work of the Agricultural College in order that it might more fully serve the chief interest of all the people.

The preamble to the Conner Bill contains the following statement, which sets forth fully the reasons for enlarging the work of the State College of Agriculture along both educational and research lines: "Agriculture is the principal industry of the State, and the main source from which the material prosperity of the State must come. Experience has demonstrated the great value of agricultural education in permanently improving the soil, multiplying its yield and increasing the value of its products. There is a growing demand by the people of the State for agricultural education, and for the practical benefits of scientific research in this line, and for improved methods in farming." The law provides that the State College of Agriculture shall be under the direction of a separate Board of Trustees, consisting of eleven men, three selected from the Trustees of the University proper, three from the directors of the Georgia Experiment Station, including the Commissioner of Agriculture, and five from the State at large. The Board has the same functions and exercises the same authority as that of the trustees of similarly organized and coördinated divisions of the University, but is subject, in accordance with the provisions of the constitution of the State, to the general control of the University Trustees.

BOARD OF TRUSTEES.

From the Trustees of the University.

JOHN W. BENNETT, Waycross,
11th Congressional District Term expires Aug. 13, 1915.

JOHN T. NEWTON, Madison,
8th Congressional District, Term expires Aug. 13, 1915.

DUDLEY M. HUGHES, Danville,
3rd Congressional District, Term expires Aug. 13, 1913.

From the Experiment Station Board:

LAMARTINE G. HARDMAN, Commerce,
9th Congressional District, Term expires Aug. 13, 1914.

THOMAS G. HUDSON, Atlanta,
Commissioner of Agriculture, Term expires Aug. 13, 1914.

ROBERT C. NEELY, Waynesboro,
11th Congressional District, Term expires Aug. 13, 1916.

From the State at Large:

JAMES J. CONNER, Cartersville,
7th Congressional District, Term expires Aug. 13, 1912.

JUDSON L. HAND, Pelham,
2nd Congressional District, Term expires Aug. 13, 1916.

GEORGE GILMORE, Worthen,
8th Congressional District, Term expires Aug. 13, 1916.

ANDREW J. McMULLAN, Hartwell,
8th Congressional District, Term expires Aug. 13, 1916.

JAMES A. THRASH, Greenville,
4th Congressional District, Term expires Aug. 13, 1912.

OFFICERS OF THE BOARD.

JAMES J. CONNER, President.
T. W. REED, Secretary and Treasurer.
ANDREW M. SOULE, Assistant Secretary.

EXECUTIVE COMMITTEE.

Messrs. Hardman, Newton, and McMullan.

THE COLLEGE OF AGRICULTURE

STAFF OF INSTRUCTION.

DAVID CRENSHAW BARROW, LL.D., Chancellor.

ANDREW McNAIRN SOULE, B.S.A., Sc.D., President; Director of Farmers' Institutes.

JOHN RICHARD FAIN, B.S., Professor of Agronomy.

ALFRED AKERMAN, A.B., M.F., Professor of Forestry.

MILTON PRESTON JARNAGIN, B.S.A., Professor of Animal Husbandry.

THOMAS HUBBARD McHATTON, B.S., Sc.D., Professor of Horticulture.

ROBERT JOHN H. DeLOACH, A.B., A.M., Professor of Cotton Industry.

WILLIAM ARCHER WORSHAM, JR., B.S., A.M., Professor of Agricultural Chemistry.

WILLIAM MILLS BURSON, D.V.M., Professor of Veterinary Science.

LEROY COLLIER HART, B.S.,E.E., Professor of Farm Mechanics.

HENRY HINO ROTHE, D.V.M., Instructor in Veterinary Science.

ROBERT M. MURPHY, Instructor in Animal Husbandry.

PHARES OBADIAH VANATTER, Superintendent of Field Demonstrations.

ETHEL REESE, Secretary to the President.

LOUIE HULL SMITH, Librarian.

AMBROSE PENN WINSTON, Farm Foreman.

CHESTER HORACE McLEMORE, Tutor in Animal Husbandry.

JOSIAH TATTNALL KOLLOCK, Student Assistant in Forestry.

WILBE WADFORD WILSON, Student Assistant in Farm Mechanics.

ROSS RENFROE CHILDS, Student Assistant in Agronomy.

MAY EPPS, Assistant Stenographer.

OLIVE BELL, Mailing Clerk and Stenographer.

DEPARTMENT OF AGRICULTURAL EXTENSION.

GUY WITSOTZKEY FIROR, B.S., M.S., Secretary of Extension Department, Horticulture.

JOHN WILLIAM FIROR, B.S., Instructor in Horticulture.

JAMES PHILANDER CAMPBELL, (In coöperation with U. S. Department of Agriculture), Professor, Schools.

MARY E. CRESWELL, Instructor, Schools.

JAMES WILLIAM HART, (In coöperation with U. S. Department of Agriculture), Professor, Dairy Husbandry.

JOHN L. BISHOP, Adjunct Professor, Animal Husbandry.

LeROY LUCIEN JONES, B.S., Instructor, Poultry Husbandry.

LEONIDAS MYERS CARTER, Adjunct Professor, Soils.

DAVID D. LONG, B.S.A., Adjunct Professor, Soils.

ROBERT S. HOLLINGSHEAD, A.B., Instructor, Soils.

JOHN E. TURLINGTON, B.S.A., M.S., Adjunct Professor, Agronomy.

LOY EDMUND RAST, B.S., Instructor, Agronomy.

PEARL MORRIS, Clerk and Stenographer.

VERA FRANCES MORRIS, Assistant Stepographer.

DISTRICT CORN CLUB ORGANIZERS.

MILTON CLEVELAND GAY, B.Ph., Assistant in School Extension.
GEORGE VIVIAN CUNNINGHAM, " " " "
JOHN KYRGESS GILES, B. S. A., " " " "
WILLIAM BRADFORD, A.B., M.D., " " " "
JAMES WALTER HENDRICKS, A.B., " " " "
CLIFFORD M. JAMES, B.S., " " " "

SPECIAL LECTURERS.

ERNEST LEE WORSHAM, B.S., Entomolomy.

BENJAMIN ALBERT CRANE, B.S., Cotton Grading.

ROBERT HATTON LOVEJOY, B.S., B.L., Forest Law.

HENRY CLAY WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry, Terrell Professor of Agricultural Chemistry.

JOHN PENDLETON CAMPBELL, Ph.D., Professor of Biology.

CHARLES MORTON STRAHAN, C. and M.E., Professor of Civil Engineering.

JOHN HANSON THOMAS McPHERSON, Ph.D., Professor of History and Political Science.

CHARLES MERCER SNELLING, A.B., Sc.D., Professor of Mathematics.

JOHN MORRIS, A.M., Professor of English Language and German.

JOSEPH LUSTRAT, Bach. ès Lett., Professor of Romance Languages.

ROBERT EMORY PARK, JR., A.M., Litt.D., Professor of Rhetoric and English Literature.

THOMAS JACKSON WOOFTER, A.M., Ph.D., Professor of Philosophy and Education.

JOSEPH SPENCER STEWART, A.M., Professor of Secondary Education.

JOSEPH ALEXANDER ATKINS, First Lieut. U. S. Infantry, Commandant of Cadets.

STEADMAN VINCENT SANFORD, A.B., Junior Professor of Rhetoric and English Literature.

LINVILLE LAURENTINE HENDREN, Ph.D., Professor of Physics and Astronomy.
JOHN MOORE READE, Ph.D., Professor of Botany.
ERNEST LEE GRIGGS, Associate Professor of Civil Engineering.
URIAH HAROLD DAVENPORT, B.S., Associate Professor of Electrical Engineering.
ROSWELL POWELL STEPHENS, Ph.D., Associate Professor of Mathematics.
HOMER VAN VALKENBURGH BLACK, Ph.D., Associate Professor of Chemistry.
ROBERT PRESTON BROOKS, B.A., (Oxon.) Adjunct Professor of Georgia History and Sociology.
WILLIAM OSCAR PAYNE, A.M., Associate Professor of History and Political Science.
MARION DERELLE DuBOSE, A.M., Adjunct Professor of English Language and German.
SANDFORD MEDDICK SALYER, A.B., Instructor in Rhetoric and English Literature.
ROBERT SPENCER POND, Ph.D., Instructor in Mathematics.
ERALBERT TALMADGE MILLER, B.S.C.E., Instructor in Physics.
CHARLES HOLMES STONE, Student Assistant in Drawing.

GENERAL STATEMENT.

The Georgia State College of Agriculture constitutes an integral part of the University system, and while it has certain buildings, lands and equipment set aside for the special use of its corps of instructors and students, its work in general is closely associated with the University proper, so that agricultural students enjoy all the advantages which a great university system affords. These advantages include instruction, advice from the professors in other colleges, use of the general libraries and scientific laboratories, and membership in the various class and society organizations. This is most desirable, since classroom training is but a part of a man's education.

AGRICULTURAL HALL.

The new agricultural hall was dedicated on January 18th, 1909, with approrpiate ceremonies. The building is 264 feet long by 72 feet wide, three stories in height, beautifully proportioned, and is, architecturally, a very pleasing structure. It is constructed of cream-colored pressed brick, Bedford limestone being used for the foundation, with terra cotta trimmings in designs symbolical of the purpose to which the building is devoted. The roof projects so as to form wide eaves and is covered with red tile. The building contains 60,000 square feet of floor space and is designed especially for instruction in agriculture and the prosecution of research work, the two ends to which it was dedicated. It contains sixty large rooms, and few buildings devoted to agricultural instruction afford better facilities for the work. Provision has been made for administration offices, and for suites of rooms containing offices, private laboratories, class rooms, and student laboratories for the departments of agronomy, animal husbandry, dairy husbandry, cotton industry, horticulture, forestry, farm mechanics, veterinary medicine, bacteriology, entomology, agricultural chemistry, and extension teaching in agriculture. Besides these several suites of rooms, there are four large class rooms, a library and reading room, and an auditorium with a seating capacity of four hundred. The building is heated by steam and lighted by electricity, and will have the necessary refrigerating apparatus for the manufacture of dairy products, and the investigation of plant and animal diseases.

It proves admirable quarters for the students of the State College of Agriculture and those charged with the conduct of its work, the lack of which in the past has been responsible in large measure for the failure of agricultural education to make greater progress.

THE CAMPUS.

The grounds of the College of Agriculture are situated about a half-mile from the present center of the University. The College building being situated upon the brow of a commanding hill, there are unusual advantages for landscape gardening and the making of a most beautiful campus about the College of Agriculture. This work is going rapidly on and soon there will be a large collection of specimen trees and shrubs about the building as well as model roads and walks. The campus affords marked advantages to those interested in landscape gardening and in studying the native trees of our State, as well as those imported from other countries.

THE LIBRARY.

The library occupies a large, well-lighted room on the main floor of the Agricultural Hall and is fully equipped with Library Bureau furniture. A good beginning has been made in the collection of standard books on all Agricultural subjects and of reference books, including Government publications, stud, herd, and flock books of the leading Breeders' Associations, the New International Encyclopedia, and Standard Dictionary. An effort is being made to complete the files of Bulletins of the Agricultural Experiment Stations and of technical magazines.

About seventy Agricultural magazines, both monthlies and weeklies, and a number of the county dailies are received in the library and serve to keep the students in touch with the progress of events along the lines in which they are interested. As soon as possible volumes of the principal magazines will be bound and will form an important part of the reference collection.

The library is open for the use of the students from 9 till 6 on week days and books may be taken out for home use for a period of two weeks.

LABORATORIES.

The success of a course of instruction in agriculture will depend largely on the thoroughness and efficiency of the training provided in the various laboratories. Ample laboratory space has been provided, while the furnishings and equipment are of the latest design and the best that can be secured for the particular end in view. Below will be found a brief description of those laboratories which have been furnished and are ready for use at the present time.

AGRONOMY LABORATORIES.

Two laboratories, occupying the east end of the main floor, are used by the department of agronomy. One of these is furnished with center and wall desks and laboratory tables for soil work. A complete equipment of soil tubes, shakers, centrifuges, water baths, and ovens has been provided so that each student may work out the problems assigned him independently. The apparatus is used in a series of experiments designed to give the student an insight into the physical and mechanical condition of the various types of soils occurring in the state.

The other laboratory is devoted to the study of farm crops, including seed testing, cereal judging, grasses and forage crops. It is provided with wall cases for specimens, and laboratory tables for the use of the students. Various kinds of seed racks and seed-testing apparatus constitute a part of the equipment. A sufficient supply of sieves, magnifiers, and microscopes are available for the prosecution of the various lines of work, and ample facilities are given all students who wish to specialize.

ANIMAL HUSBANDRY LABORATORIES.

In the College building about seven thousand feet of floor space has been set aside for laboratories to be used in theoretical and practical instruction in dairying. Sufficent funds have not been available to equip this department fully up to the present time, though enough apparatus has been secured to get the work well under way. In the butter-making laboratory there are various makes of separators, both hand and power, which not only give the student a knowledge of how to set up and operate centrifugal separators, but enable him to determine from actual tests the make, type, and capacity of machines that will best meet his individual needs, both for factory and farm dairies. So far this laboratory has been equipped more in the nature of a farm dairy than as a centralized creamery, and the churns and butter workers are of small capacity . Additional apparatus will have to be purchased next year, as the 46 men taking work in dairying the past year overtaxed the present equipment. Factory machines will be installed later.

The milk-testing laboratory is a well-lighted, spacious room, in which there are several models of Babcock testers, both hands and power design. The importance of a rapid and accurate means of determining the amount of butter fat in skim milk, whole milk, and cream has become duly recognized, and no one, either producer of milk, or manufacturer of butter and cheese, can successfully conduct his business without being familiar with this test. Various methods for determining the lactic acid content of milk are available, and the students are made thoroughly familiar with this important phase of successful dairying. In addition to the above tests, facilities are provided for instruction in determining the solids not fat, as well as making curd tests.

In recent years, under prevailing market conditions, the necessity for sanitary, wholesome dairy products that will stand long storage and transportation by rail has increased to such an extent that the pasteurization of milk and cream has become one of the important branches of the dairy industry. For this reason a separate pasteurizing laboratory has been provided in the dairy department.

In the production of palatable, sanitary products which will command the highest prices on the open market, it is necessary that the producer have some means of controlling the temperature of the milk during different stages while it is being prepared for the consumer, or in the ripening, storing, and holding of the different dairy products. Ample refrigerators have been provided for conducting experimental work along these lines.

Herd, flock, and stud books of most of the leading breeders' associations have been secured, so that the students are familiarized with the different methods and forms of tabulating and keeping pedigrees. These books are used as a supplement to the work in animal breeding, in familiarizing students with the combinations of blood lines that have gone to produce the highest type of animal.

On the College farm several breeds of live stock are maintained. Accurate records of their feed and production are kept, and the various experiments in breeding and feeding supplement and verify the work given in the laboratroy and class room.

HORTICULTURAL LABORATORIES.

There are three laboratories in this department. A student laboratory and a private laboratory are in the Agricultural College building, and the third, a spraying laboratory, is on the horticultural grounds, which are located about four hundred yards southeast of the building. The students' laboratories will accommodate about thirty men, and are fitted with the necessary apparatus. The private laboratory, containing a culture room, fume hoods, and other essential fixtures, is reserved for research work pertaining directly to horticulture. In the office of the department, which connects the student and private laboratory, is a vault for the safe keeping of records and other valuable papers. Besides the above, there is a barn and a tool-shed, which afford ample room for the storage of all implements necessary on a fruit farm.

COTTON INDUSTRY LABORATORY.

A systematic study of cotton fibre with a view to the improvement of the fibre and the increase in yield, depends upon laboratory facilities, and as the courses offered in the department of cotton industry will be largely laboratory courses, provision was made for every known facility for conducting the work. Possibly it will be some time before all apparatus incident to the work can be purchased, but the laboratory is fitted with strictly up-to-date equipment, and is in perfect working order. Ample facilities are offered for a study of the modern methods of bleaching and mercerization, and for experiments in dyeing the cotton fibre; for combing and mounting the different varieties of cotton in a comparative study of individual merit; for an investigation of the basis on which classification and grades of lint cotton depend; and for ascertaining the breaking strength of the individual fibres of all varieties and grades. For a study of the nature of cotton fibre the best and latest model student microscopes are used.

In connection with this department there is also a research laboratory to which graduate and special students have access. This laboratory was designed to work out problems of a more general nature as they arise in connection with the study of cotton breeding, the nature and causes of the loss in connection with milling cotton, and the like. Located as it is, in the center of the cotton belt, it is believed that this laboratory will prove ideal for working out all problems connected with the South's greatest industry.

FARM MECHANICS LABORATORIES.

The Farm Mechanics Laboratories are located in the main building on the ground floor in the east end, and in the new Farm Mechanics Building just back of the Main Building. This building is a combination of brick frame and reinforced concrete. It is 40x100 feet inside measurements and is two stories high. The laboratory located in the Main Building is 33x70 feet, and is used for drawing and surveying.

It is equipped with 50 of the latest drawing tables with parallel attachments, blue print frame and washing pan. Blue prints can be made up to 36x40 inches. With the present surveying equipment ten parties may be put into the field for farm surveying. The surveying equipment consists of five complete Bustrom and Brady farm levels and compass combination instruments. Five Keuffel and Esser combination farm transits. One convertible engineering level and a transit is available for advanced work. There is a full line of tapes, pins, hatchets, poles and target rods for equipping each party. In addition to the above equipment six plane tables will be added during the year.

FARM MACHINERY LABORATORY.

The Farm Machinery Laboratory is located in the new Farm Mechanics Building, and occupies the whole of the second story. It is equipped with a full line of the latest farm machinery. An acetylene plant has been installed and its adaptability to the farm home illustrated, there being lights, heating and cooking attachments. A full line of pumps, pneumatic system, hydraulic ram, windmill and gasoline engines illustrating the different water supply systems will be installed.

A full supply of plumbing material, as is applicable to farm conditions, has been placed in the stock room and a plumbing stand for the practical illustrating of installing plumbing and drainage on the farm is provided.

FORGE SHOP.

The forge shop is located on the ground floor in the East end of the Farm Mechanics Building. It is equipped with twelve of the latest models of the Buffalo Forge Company's heavy cast-iron forges. The blast and exhaust for these forges is taken care of from the proper sized fans located in the supply room. These fans are driven by an electric motor which also supplies power for the emery wheel grinder and polisher. Each forge has coal and water boxes and a full supply of forge tools. An additional equipment such as vises, drill, emery wheel, polisher and grinder and benches is provided.

WOOD SHOP.

The wood shop is located in the west end of the ground floor and occupies the same sized room as the forge shop. The equipment of this shop consists of benches for twenty-six students, planer, matcher, rip and cut-off saw, band saw, and turning laths. Each bench is equipped with a full set of chisels, saw, mallet, try square, thumb guage, oil stone and oil can, and bench brush. A bench hook is supplied with each full bench equipment. Each bench has a vise attached.

DISPLAY AND ASSEMBLING ROOMS.

Between the wood and forge shop is the display and assembling rooms and the supply and tool room. In the tool and supply room is kept a full supply of both wood, iron and steel for both shops. In addition is kept planes, saws, hammers, squares, etc., for the woodshop; drills, guages, callipers, etc., for the forge shop. The display and assembling room is for the use of the students in putting together furniture and other wood work, also for the display of models for farm buildings.

The class room in which all the lectures and recitations are held is located in the Main Agricultural Building, next to the drawing and surveying laboratory. It is equipped with fifty-two adjustiable arm seats, lecture desk, blackboard, etc. The lecture desk has both water, gas and sink connections.

VETERINARY SCIENCE LABORATORIES.

The laboratories of this Department consist of several large rooms occupying the west end of the main floor of the College building. A small room opens into each of the large laboratories, the arrangement being adequate to accommodate the classes in laboratory work and for the storage of the various materials necessary.

The laboratories are well lighted, have a north exposure admirably suited to microscopic work, and are supplied with water, gas, and electricity.

The histological and pathological laboratory is furnished with double biological desks which are fitted with drawers and compartments for microscopes and other instruments and accessories used by the students in the work of these courses. Cicrotomes, a Naples Water Bath, mounting media, stains and reagents, with the necessary equipment of glassware are supplied for the use of students. A large wall cabinet in this room contains an exhibit of specimens and models of diseased organs and parts.

A steel enameled instrument cabinet with a fine equipment of surgical instruments occupies a corner of the private laboratory.

A small room in the suite is fitted up as a pharmacy. Here is found a large stock of drugs and medicines used in veterinary practice, together with an equipment of percolators, filters, mortars and pestles, scales, pill tiles, etc., for the study of Materia Medica and Pharmacy. A case of specimens of nearly two hundred crude drugs is also a part of the equipment.

The bacteriological laboratory devoted to the study of disease producing germs is fitted with biological desks, wall cabinet, wall desk, and cabinet of microscopic slides. This laboratory is equipped with high power microscopes with the best oil immersion lenses, hot water bath, steam pressure sterilizer, hot air sterilizer, incubator, culture media and all necessary accessories.

The small room connected with this laboratory is so constructed that it is free from draughts of air and temperature variations are reduced to a minimum. This is used as an incubator room and is fully equipped.

An equipment of skeletons, models and charts of farm animals are used to illustrate the studies of anatomy during the warmer months.

THE VETERINARY HOSPITAL.

The veterinary hospital recently built is provided with box stalls for sick animals, bath stall, clinic room, operating room, dissecting room, office and dispensary, and room for attendant. A complete equipment of hopples, side lines, slings, casting harness and operating tables is provided together with dental, operating and obstetrical instruments and appliances. Clinics at which sick or injured animals are treated free of charge are held at stated periods throughout the school year, and students are trained in the diagnosis and treatment of diseased animals and are required to prepare and administer medicines by the various methods. Especial attention is paid to instruction in the care of sick and injured animals, and the hygienic conditions which should surround them. A score card system of examination of animals for diseases, unsoundness and blemishes is used.

The dissecting room is used during the colder months in the study of anatomy and physiology. Students are required to dissect and study the various parts of farm animals and to observe the location of the internal organs and the principal blood vessels, nerves and other structures.

HOG CHOLERA SERUM.

The 1911 session of the General Assembly passed a Bill appropriating the sum of $3,000 for the purpose of equipment and manufacture by the veterinary department, of Dorset Niles Hog Cholera Serum. This substance is the best known preventive of cholera in swine, and the manufacture by the College is for the purpose of instructing the students concerning swine diseases and the process of manufacture and administration. The serum is supplied to swine owners at cost of production on orders from the State Veterinarian.

AGRICULTURAL CHEMISTRY LABORATORIES.

The courses of instruction offered in this department are designed to prepare students for practical work. Well-equipped laboratories are necessary that this may be done.

The laboratories occupy the west end of the top floor of the College building, the main laboratory being well ventilated and lighted from three sides. These laboratories are well equipped with new and modern desks, hoods, tables for microscopic work, and apparatus, accommodating sixty to seventy-five students. Adjoining the main laboratory is a well-lighted balance room equipped with the most accurate balances.

Adjoining the instructor's office is a private laboratory separated from the main laboratory by the store room which opens into both laboratories. This laboratory is equipped for the analysis of soils, feeds, fertilizers, waters, etc.

Each desk in the laboratory is supplied with gas, water and sinks. Ample facilities are offered for students specializing in the different branches of analytical work, such as soils, feeds, and other agricultural products.

The library is supplied with a number of the best reference books on chemical subjects.

THE COLLEGE FARM.

Contiguous to the building and extending in the rear for more than a mile lies the College farm, consisting of 830 acres. This land is varied in character; some of it is rough and broken, while other sections are fairly level; portions are well wooded, and a diversity of soils is met with. This is not objectionable from one point of view, as it will enable tests to be made which will be applicable to the types of soil found in many sections of the state.

For a number of years a large part of the land has been rented and handled in a very careless manner. No crop rotation has been followed, and very little live stock has been kept on the farm. As a result, the land is badly eroded in many places, and in poor physical condition. Winter and summer legumes are now being sown for the purpose of adding nitrogen and humus to the soil. Attention is being given to the construction of terraces and drains, and much loose stone and trash has already been removed from the land. While these operations are costly, they form an excellent object lesson for students in the reclaiming of exhausted soils, and it is only a question of time when the farm will be put on a highly satisfactory basis from both a physical and a financial standpoint.

The farm has been accurately surveyed and mapped; first with the idea of beautifying it as fast as funds become available by laying out the necessary roads and walks and locating such additional buildings as will be required from time to time with due regard to desirable landscape effects; and second, by the U. S. Department of Agriculture, so that all the soil types found might be defined and their physical characters ascertained. Thus when experiments are undertaken combining a physical and chemical study of the soils, results of accuracy and value may be expected.

THE COLLEGE BARNS.

The funds available for the erection of barns were so limited that these structures have been made very plain, though substantial. As the cost of these buildings is low, they can be copied advantageously by any farmer, a consideration of much practical importance. The dairy barn is 40x70 feet, and contains stalls for thirty cows and seven horses, besides two box stalls. There is also an office, a milk room and a boiler house. A 135-ton silo is connected with the barn by a feed-mixing and weighing room, and there is ample space for the storage of rough feed. A bull house, the necessary paddocks for young stock, a blacksmith shop, machine shed, and individual hog houses have also been erected near the dairy barn.

During the past year a beginning was made at erecting the main stock barn on the College farm. However, only a sufficient amount of money was available for building, and partially completing the storage space of this barn. The part which has been erected is of the most modern construction, and nothing but the best material has been used. It is 40x120 feet, and 40 feet high. An office, bed-room, and storage room have been provided on the first floor, and the remainder of this floor will be used for grain and feed bins, and a mixing and grinding room. The entire second story is for roughage, and has a capacity of 500 tons of loose hay. This barn, when completed, will represent an investment of approximately $10,000, and the herds have grown to such size that it will have to be completed within the next year.

LIVE STOCK.

The Dairy Herds.

The establishment of herds and flocks is an expensive undertaking, and the limited funds available made it necessary for the College to exercise care and discretion in the organization of this feature of the work. Substantial progress is being made, however. Eleven pure bred Jersey females and one bull are now owned by the College, and in addition there are forty grade Jerseys in the herd. The Holstein herd consists of one bull, eight pure bred females, and five grade heifers. There are twenty heifers that will soon be in milk and will be used for either enlarging the herd or replacing the more inferior aged cows.

The Beef Herd.

A considerable portion of the College farm is in a depleted and worn condition. Sufficient funds have not been available for rapidly improving this abandoned land. For the present it is being utilized as a beef ranch. The herd consists of 30 high grade Herefords and one registered Hereford bull. This affords a valuable object lesson in utilizing the unoccupied land, as well as affording representatives of the beef type for stock judging with the students.

The Hog Herds.

A herd of pure bred Tamworths (representatives of the extreme bacon type of hog), and Berkshires are maintained on the farm. Experiments in cross-breeding are now under way. Feeding trials are being made to determine the efficiency of various grazing crops and grain rations for producing pork cheaply.

Work Stock.

A total of 18 horses and mules are owned by the College farm. The mules are of superior quality and represent different types, including medium heavy plantation mules, sugar mules, and heavy draft mules. The stallion and breeding mares are also used as farm workers, and all of the stock is used for teaching work in stock judging. On account of this requirement, the department hopes to maintain a greater number of animals, and of more types than will be absolutely needed for farm work, and all of the herds should be increased rapidly.

Horse Breeding.

The stud consists of one pure bred Percheron stallion and three high grade Percheron mares, besides one draft filly and one trotting bred mare.

On account of the importance of this work, both from the standpoint of increasing the work stock on the College farm, and the beneficial demonstration for the students, and the farmers of the state, the work in this department will be prosecuted as rapidly as funds will permit.

THE DEMONSTRATION FIELD.

A field of twenty acres has been set aside for experimental work. This area of land has been subdivided into more than 1,000 plats, ranging in size from $\frac{1}{50}$ to $\frac{1}{10}$ of an acre. Through the medium of this experimental field nature is constantly being asked questions, and new facts of interest are being brought to light by actual field tests; the value of principles and theories developed through laboratory research is determined, and thus the education of the student is made more perfect and complete, since he not only receives instruction in theory in the class room, but has the underlying scientific principles fully demonstrated to him in the laboratory, and sees the actual results which follow the application of these principles in farm practice.

Much attention will be given in the demonstration field to the development of strains of cotton, corn, and other farm crops of better quality than those ordinarily grown. The relation of fertilizers to crop production, the influence of various methods of cultivation, the value of crop rotations, and the merits of new and interesting varieties of farm crops will be fully tested, and not only will they be made a part of the knowledge of the student body, but the results will be prepared in pamphlet form and distributed free of cost to the farmers of the state. This feature of the work will thus be made to serve several useful and important economic purposes, as well as providing a definite type of information for agricultural students.

In connection with the department of cotton industry, there will be special plats set aside for conducting experiments in cotton breeding, both by selection and hybridization, and students will be given opportunity to see the results of their own experiments. There will also be arranged a variety test of all the leading varieties of cotton, and during the growing and harvesting seasons students will be required to write full descriptions of varieties, in order that they may be able to distinguish one variety from another, and at the same time acquire the habit of studying the cotton plant.

ORCHARDS AND GARDENS.

About thirty-five acres of the College farm have been set aside for horticultural purposes. The land is rolling, and, with the exception of one or two acres of sand, which will serve well for truck crops, the soil is red clay. The field has been plotted and a variety orchard planted, in which all the varieties of apples, pears, peaches, plums and other fruits recommended for this section are well represented, so that a comparative study of their qualities can be easily made. As rapidly as funds will permit, a truck garden will be brought into shape, experimental plats laid out, a commercial orchard started. A plantation of small fruits is already well established. For the benefit of the fruit growers at large the horticultural grounds will serve as a testing field for all new varieties and also as a laboratory in which to experiment upon and demonstrate to the students all practices of orchard and garden management.

THE AGRICULTURAL CLUB.

The students of the College have an organization of their own, known as the Agricultural Club, which meets every two weeks for the discussion of various agricultural topics. The purpose of the society is to obtain drill in parliamentary practice and in declamation and debate, as well as to discuss the scientific and practical phases of many important agricultural problems. The club publishes a Quarterly, which is not only distributed quite widely among the student body, but is circulated over the state. This publication forms a desirable medium of communication between the students and the farmers, and furnishes useful literary training to the students as well.

FEES AND EXPENSES.

Attention is called to the remarkably low cost for which a man may take a full collegiate year in the college. By rooming in the dormitories a young man can live at the University almost as cheaply as at home. This should encourage a large number of young men to avail themselves of the special advantages which the four-years course or the one-year course will confer upon them.

The expenses are as follows:

Room rent in College dormitories, $2.50 per month. This includes electric lights, heavy furniture, and care of room. The students provide fuel, mattress, bed furnishings, and toilet articles. Board in Denmark Dining Hall costs $9.00 a month on the coöperative plan. Room rent and board are paid monthly. Furnished rooms in private families may be secured from $2.50 to $5.00 a month for each occupant.

Laundry will cost about $1.25 a month and books about $10.00 a year. All students are required to join one of the literary societies, the initiation fee being $2.00.

Uniform for the military department will cost about $16.00. This will last two or three years.

In short, the necessary expenses of a student for the college year of nine months need not exceed $150.00.

Expenses for short term students are in proportion to those for long course students. The cost of attending the Cotton School will vary from $15.00 to $25.00, due chiefly to the variation in railroad fare.

PUBLICATIONS.

The Georgia State College of Agriculture through its extension department publishes circulars of information on pertinent topics from time to time. These circulars are distributed free of cost to farmers residing in the State. A series of educational bulletins is now in course of preparation, and at least four will be distributed during the year. These will summarize in a practical manner the results of investigations, for example, with cotton and corn, and will prove especially valuable for reference to all progressive farmers. It is expected that this series will be developed from year to year until eventually a first-class reading course and farmers' library will be the result. Press bulletins are also sent out each month to all the papers of the State. Thus the College is taking an active part in endeavoring to disseminate the vast fund of useful information which has accumulated as a result of the researches of the agricultural colleges and experiment stations within the last few years.

PRIZES AND SCHOLARSHIPS.

Through the generosity of the various friends of agricultural education the following scholarships and prizes have been offered to students. The coöperation of the good friends who have made it possible to offer these prizes is heartily appreciated.

LIST OF PRIZES

Awarded at Commencement, 1911.

Junior Scholarship, $50.00 in gold, given by the Virginia-Carolina Chemical Co., Richmond, Va., to the student showing the greatest proficiency in all agricultural subjects for the College year 1911-12.

Sophomore Scholarship, $40.00 in gold, given by the Virginia-Carolina Chemical Co., to the student showing the greatest proficiency in all agricultural subjects for the College year 1911-12.

Freshman Scholarship, $25.00 in gold, given by the Virginia-Carolina Chemical Co., to the student showing the greatest proficiency in all agricultural subjects for the College year 1911-12.

One year agricultural course, $25.00 in gold, given by Virginia-

Carolina Chemical Co., to the student showing the greatest proficiency in all agricultural subjects for the College year 1911-12.

$25.00 in gold, given by the Board of Trustees to the student writing the best essay on "The Benefits which the Experiment Stations have conferred on Southern Agriculture."

$50.00 in gold, given by the Empire State Chemical Co., Athens, Ga., to be divided into three prizes of $25.00, $15.00 and $10.00 respectively for the best essays on "The Use and Application of Commercial Fertilizers."

$10.00 in gold, given by the DeLaval Separator Co., New York, N. Y., to the student showing the greatest proficiency in the handling of cream separators.

One Silver Cup, given by T. W. Wood & Sons, Richmond, Va., to the student in the one-year course writing the best essay on "Farm Crops."

$10.00 in gold, given by H. G. Hastings & Co., Atlanta, Ga., to the student writing the best essay on "The Relation of Soil Improvement to Crop Production."

$10.00 in gold, given by H. G. Hastings & Co., Atlanta, Ga., to the student writing the best essay on "The Influence of Seed Selection on Increased Yields."

Scholarships to the College of Agriculture have been offered by Hon. Asa G. Candler, H. G. Hastings & Co., and Congressman Gordon Lee. Others will be added from time to time. Those who contemplate entering the College and desire information relative to these matters should write to the President.

Two Scholarships, offered by the Southern Railway Company, conditions to be announced.

TERMS OF ADMISSION.

Four-years' Degree Course. The requirements for admission to the four-years' course are similar to those for all other students entering the University.

A brief summary of these requirements is here given:

A study of English Grammar, Rhetoric and a number of English Classics, as Shakespeare, Milton, Tennyson, 3 units.

A study of Arithmetic, High School Algebra and Plane Geometry, 2½ units.

A study of two of the following history groups. Ancient History, English History, American History and Civics, Modern History, 2 units.

And 6½ units (of which three may be for agriculture), from the following: Elementary Physics, Physical Geography, Botany, Chemistry, Drawing, Agriculture, Physiology, Zoölogy, History, and a foreign language.

A study of a foreign language, 2 or more units.

This makes a total of fourteen units for full admission to the Freshman class. No student will be admitted with less than 10 of these units, the other 4 units being made up later in the course by outside study or extra studies.

For full outline of entrance studies, the student is referred to the General Catalogue of the University, or to the Principal of his school.

Students not less than eighteen years of age and not candidates for a degree may be admitted to the courses in Forest Engineering upon the recommendation of the professor in charge and the approval of the Entrance Committee.

Students from Accredited Schools will be admitted on a certificate from the principal covering the work done. On work not thus certified students must stand examinations to determine their qualification to carry forward college work. Students who enter the Agricultural College with ten units will be allowed to make up four units in the following manner:

In the Freshman class, Drawing one unit; Agriculture (Soils, Soil Fertility, and Feeds and Feeding in the one-year agricultural course) one unit.

Sophomore class, Physics 1, one unit; Physiography, one unit. If the student finds that he is not able to carry all the Sophomore year, he will be allowed to carry History over to the Junior year.

Special One-year Course.—Students 16 years of age and over are admitted to this course without examination, at the discretion of the executive officers of the College. They must, of course, have a good common school education in order to benefit by the instruction provided, and must be diligent and faithful in the prosecution of their studies. These are not candidates for degrees.

Three-Months' Course.—The three-months' course is an integral part of the one-year course, and so arranged as to permit farmers and farmers' boys 16 years of age and over to attend the College for a period of three months in the winter season when work is not pressing, and obtain a large amount of practical training based on correct scientific principles at a minimum cost. No entrance examinations are required for this course.

Farmers' Short Courses, Cotton School, etc.—These courses are open to any person over 16 years of age in the State, but are designed mainly for farmers of mature years who cannot spend more than ten days away from home during the winter season. The cost of these courses is reduced to a minimum and they are intensely practical in character.

CONFERENCE FOR FARMERS AND FARMERS' WIVES.

An annual conference is held during the month of January for the purpose of bringing the farmers and their wives more intimately into touch with the work of the College. The conference lasts for a week, and during that time a great variety of topics are discussed. The Farmers' Conference is a modified school, with its work so adjusted as to give the busy farmer and his wife a pleasant holiday outing, and at the same time enable them to acquire information which will be of service to them throughout the year.

SELF-HELP.

It is the purpose of the College to encourage students to work as much of their time as possible for both economic and practical reasons. In this way the cost to the student may be reduced considerably, and his knowledge of how to apply scientific principles in farm practice may be materially broadened. It is both important and necessary that labor with the hands should be recognized as honorable and essential to the welfare of an agricultural people.

Students in the College of Agriculture have the same opportunities of securing help from the Charles McDonald Brown Scholarship Fund as those in other departments of the University at Athens. The interest on this fund is lent to worthy young men on condition that they obligate themselves to return it with four per cent. interest. Applications for scholarships should be made to the Chancellor of the University. A special circular of information concerning the fund and blank forms of application will be supplied on request. This fund makes it possible for many young men of limited means to take advantage of the opportunity which the College offers for securing an education.

OBJECTS OF THE COLLEGE.

The purpose and plan of the Agricultural College is, first to train agricultural students in the sciences pertaining to correct farm practice in order that they may receive a thorough and liberal education; second, to so arrange the course of instruction that men of limited means, opportunity, and education may receive the greatest practical benefit by attending courses of varying length provided for in the College; third, to take an active part in the dissemination of agricultural knowledge among the farmers of the State by means of extension teaching, farmers' institutes, and bulletins and publications of a popular and practical nature.

COURSES OF INSTRUCTION.

The four-years' course provides for a liberal and thorough training along scientific lines in agronomy, soil fertility, animal husbandry, dairy husbandry, horticulture, farm mechanics and cotton industry. General training in chemistry, physics, botany, biology, English and mathematics is also provided. Since the field of agricultural education is so broad that it is quite impossible for a student to pursue all the courses offered in four years, certain fundamental studies are prescribed, and the largest liberty of selection commensurate with the best interests of the student permitted. In this way the student is enabled to select a course which is more in keeping with his taste, and at the same time he can obtain sufficient special training to fit him better for the special line of work he desires to pursue upon graduation.

The one-year course is provided for men who have only a limited amount of time and money at their disposal, and who in many instances have not the fundamental training which would enable them to pursue a four-years' course of study advantageously. Men of this class, however, who desire to farm can improve their knowledge and abiltiy to manage farm problems intelligently by pursuing this course at a moderate cost. Naturally, the training provided for in this course is of a more restricted and practical nature, as its character and intention make necessary.

The three-months' course and the ten-day courses and conferences are provided for those actually engaged in farming or interested directly or indirectly in it who desire to obtain the largest amount of practical knowledge which they can apply immediately and with profit, at a minimum of cost. These courses confer great benefits upon all who pursue them, and are to be commended particularly to men varying in age from 25 to 60 years who have not had the benefits of agricultural training in the past, and are therefore at a loss to know where to look for information and very often how to apply it successfully even after they have acquired it.

SPECIAL COURSE IN COTTON INDUSTRY.

The department of cotton industry is a newly organized department in the State College of Agriculture, and is designed to meet the special needs of a cotton-growing community. Students therefore, who are desirous of specializing in the work will have the opportunity of electing all the courses of instruction offered by the department, provided they select from allied subjects a sufficient amount of work to meet the University requirements. Two special courses of 30 days duration are offered in January and June to all who desire to specialize in cotton grading and related subjects.

DEGREE.

The degree of B.S. in Agriculture is conferred upon all students who successfully complete the four-years' course. An outline of the long course in agriculture follows, giving in detail such information as students who desire to pursue it will find most helpful. Those desiring special information relative to any phase of the work prescribed below are invited to write to the College authorities for it.

BACHELOR OF SCIENCE IN AGRICULTURE

Freshman.		Sophomore.	
Agronomy 1, 2	2 hrs.	Animal Husb. 2, 3 4 and 5,	4 hrs.
Animal Husb. 1,	1 "	Botany 1,	3 "
Farm Mch. 1, 2, 3, 4, 5,	3 "	Agr. Chemistry 1 and 2,	4 "
Horticulture 1, 2 and 3,	3 "	History 2 or 4,	3 "
English 1,	3 "	English 2,	3 "
Chemistry 1,	3 "	Mathematics 2, 3, or 1,	3 "
Mathematics 1, or 2-3,	3 "	Veterinary Medicine 1-2,	3 "
Military Science	1 "		
	19 hrs.		23 hrs.

General Agriculture.

Junior.		Senior.	
Agr. Chemistry 2 and 3,	4 hrs.	Agr. Chemistry 4,	4 hrs.
Agronomy 5, 6,	4 "	Animal Husb. 6, 7, 8,	3 "
Agronomy 3, 4 Farm Mch. 6, 7	3 "	Vet. Medicine 3-4, Cotton Industry 4, 5	3 " 3 "
Botany 2,	4 "	Farm Mch. 8, 9 Forestry 3	3 "
Physics 3 or 5,	3 "		
	17 hrs.		16 hrs.
Elective	3 "	Elective	6 hrs.

Agronomy.

Agr. Chemistry 2 and 3,	4 hrs.	Agr. Chemistry 4,	4 hrs.
Agronomy 5, 6,	4 "	Agronomy 7,	4 "
Agronomy 3, 4 Farm Mch. 6, 7	3 "	Cotton Industry 7,	4 "
Cotton Industry 4, 5,	3 "	Farm Mch. 8, 9 Forestry 3	3 "
Physics 3 or 5,	3 "		
	16 hrs.		15 hrs.
Elective	4 "	Elective	6 "

Animal Husbandry.

Agr. Chemistry 2 and 3,	4 hrs.	Agr. Chemistry 4,	4 hrs.
Animal Husb. 6, 7, 8,	3 "	Animal Husb. 9	3 "
Vet. Medicine 3-4,	3 "	Animal Husb. 10,	3 "
Agronomy 5, 6,	4 "	Vet. Medicine 5-6,	3 "
Farm Mch. 6, 7,	1 "	Cotton Industry 6 Forestry 3	3 "
Physics 3 or 5,	3 "		
	17 hrs.		16 hrs.
Elective	3 "	Elective	6 "

Horticulture.

Agr. Chemistry 2-3, or Botany 2,	4 hrs.	Agr. Chemistry 4, or Botany 6,	4 hrs.
Horticulture 4, 5, 6, 7, 8, 9,	6 "	Horticulture 10, 11, 12,	6 "
Agronomy 5, 6,	4 "	Cotton Industry 5,	1 "
Physics 3 or 5,	3 "	Farm Mch. 6, 7,	1 "
		Farm Mch. 8, 9 Forestry 3	3 "
	17 hrs.		15 hrs.
Elective	4 "	Elective	6 "

Chemistry.

Agri, Chemistry 2-3,	9 hrs.	Agr. Chemistry 4,	9 "
Agronomy, 3, 4,	2 "	Agronomy 5, 6,	4 "
Animal Husb. 6, 7, 8,	3 "	Cotton Industry 6 Geology	3 "
Physics 3 or 5,	3 "		
	17 hrs.		16 hrs.
Elective	3 "	Elective	6 "

Note.—Students not presenting two units in a foreign language at entrance, may make them up in the Freshman and Sophomore years and carry over Freshman and Sophomore mathematics into the Junior and Senior years.

Note.—All laboratory periods count as one hour for two, and are included on that basis in the total number of hours required in each year.

To permit of greater specialization on the part of students, groups of electives have been arranged for. By this means the students may pursue a more or less general course of instruction during the Junior and Senior years, or specialize in agronomy, animal husbandry, horticulture or agricultural chemistry. Students desiring to specialize will be required to elect a major group in the Junior year, and continue the study of the coördinated courses in the Senior year. Thesis work will be required for graduation, and must be associated with the major study elected in the Junior year. The work done on the thesis will not reduce the number of units required during the Senior year.

Electives.

A student will be required to submit in writing to the head of the department from which his major is chosen his electives for the year for approval before registering. The electives may be selected from Junior or Senior subjects.

BACHELOR OF SCIENCE. (Forest Engineering).

The degree of Bachelor of Science in Forest Engineering is given upon the completion of the studies outlined below. These studies have been chosen for their cultural as well as their professional value.

It is probable that the strictly professional studies will in the future be made post-graduate work, leading to the degree of Forest Engineer (F. E.); but at present only the bachelor's degree is given.

Note.—Candidates for this degree who do not offer two units in foreign language at entrance, must take a foreign language in the Freshman and Sophomore years in addition to the scheduled work.

Freshman.	hrs.
Shop Work (Mch. 1) . . .	1½
Drawing (Mch. 2 and 2*a*),	2½
English 2,.	3
History 1, ...	3
Mathematics 1, 2, ...	3
Physics 2, ...	4
Botany 1, ...	4
	21

Sophomore	hrs.
Forest Surveying (Mch. 5*a*) . . . . . . Saw Mill Construction (Mch. 5*b*)	4
English 2, ...	3
Mathematics 3, ...	3
Botany 2, ...	4
Chemistry 2, ...	4
Forestry 4, ...	3
	21

Junior.	hrs.
Saw Mill Machinery, (Mch. 7*a*) . . . . . . Timber Physics, Mch. 7*b*) . . . . Wood Preservatives, (Mch. 7*c*)	4
Botany 9, ...	4
Zoölogy 2, ...	4
Analysis of Woods, Gums, Resins, and Derivatives, (Agr. Chem. 2*a* and 3*a*)	6
Forestry 5, ...	3
Geology	1½
	22½

Senior.	hrs.
Soil Physics (Agronomy 5 and 6, ...	4
Concrete (Mch. 8*b*) . . Forest Roads (Mch. 9*a*)	1½
Forestry 5, ...	2
Forestry 6, ...	2
Forestry 7, ...	2
Forestry 8, ...	4
Forestry 9, ...	2
Forestry 1.	3
	20½

AGRONOMY.

JOHN R. FAIN, Professor.

J. E. TURLINGTON, Adjunct Professor, Extension.

P. O. VANATTER, Instructor, Extension.

L. E. RAST, Instructor, Extension.

1. **Cereals.** The cereals studied include wheat, corn, oats, barley, rye and rice; sorghum, millet and buckwheat are studied briefly, in so far as the grains are used for food. The study of these cereals includes the origin, history, composition, cultivation, and methods of improvement. In addition to text-book work, the cereals are grown in nursery rows convenient to the

College, so that the student may study the plants first hand. The demonstration field is also used for the same purpose. Two hours. Second and third term. *Freshman.*

2. **Cereal Judging.** This is a laboratory course. The study begins with the seed, and is followed up by the study of the mature plant, and its relation to seed production. A part of this work is in the field, and in the demonstration barn, so that the student is taught not only the various facts in regard to the development of the cereals, but forms the habit of studying these plants in the field. The demonstration field, and cereals grown in nursery rows form excellent facilities for this work. The germination of corn is given especial attention, and the records in the demonstration field are used in this connection, showing the relationship between the germination growth of the various varieties tested. One laboratory period. Second and third term. *Freshman.*

3. **Farm Management.** Factors entering into the business of farming, and maintaining farm lands are studied in their relation to each other, and to their proper influence on farm practice. Special attention is paid to ways of systematizing the business, and methods of maintaining the crop production of the land. In this connection a detailed study is made of rotation as adapted to Georgia conditions. Laying out the farm, methods of cropping, and records are studied. The cost of production and marketing is given special attention. The laboratory work will consist of conferences in which the results summarized from investigation by the student will be discussed. The student will be required to use "Rural Economics," by Carver, for parallel reading. Other reading assignments will be made from time to time. Two lectures and one laboratory period. First term. *Junior.*

4. **Grasses and Forage Crops.** The different varieties of grasses and forage crops are studied with reference to their yield, composition, and feeding value. Special attention is paid to those grasses and forage crops that are adapted to southern conditions. As silage is undoubtedly the cheapest form in which forage crops can be preserved in this state, considerable attention will be given to the crops best adapted for silage, the best method of handling the crop, and harvesting it. Three hours. Third term. *Junior.*

5. **Soil Physics.** A study is made of the origin of soils, the different forms of disintegration, and the physical properties of different types, especially in their relation to crop production. Laboratory experiments are required with type soils. Each

student must bring from his home not less than 150 pounds of his home soil. This should be an average sample, taken from several places of the most uniform type prevalent on his home farm and community. In addition to the text, parallel reading will be assigned. Special laboratory work will be given forest students so this course will meet their needs. Two lectures and two laboratory periods. First half year. *Junior.*

6. **Soil Fertility.** Factors in crop production, and methods of controlling these are studied with especial attention to the influence of culture and fertilization. Methods of handling the soil, so as to cause more permanent fertility, rather than a temporary crop production are emphasized. Special attention will be given to the uses of commercial fertilizers, and general soil management. Parallel reading will be assigned. Forest students taking this course will be given laboratory work that will be adapted to their special needs. Two lectures and two laboratory periods. Half year. *Junior.*

7. **Advanced Work.** Students specializing in Agronomy will be allowed the privilege of either continuing soil work, or farm crops. The data accumulated from the demonstration field will be utilized as much as possible in this course. If the soil work is continued, considerable time will be given to pot tests, with two or three of the principle soil types of the state. Four hours per week. *Senior.*

COTTON INDUSTRY.

R. J. H. DeLOACH, Professor.

1. **Laboratory Course in Combing and Mounting.** To meet successfully the demands of the cotton markets, growers must know the essentials of a good variety of cotton, and this course is offered to enable students to comb and mount samples of each variety for comparison. Offered to special students. One lecture and two laboratory periods of one hour each, per week. First term. Required of all men who elect cotton industry.

2. **Cotton Grading.** In this course will be given the essentials of cotton grading together with a study of the "standard grades" of American uplands, and Sea Island cotton. Score cards will be used in this course, and students marked largely by their work in actual grading. Offered to special students. Three hours per week. Second term. No text-book required. Note books required.

3. **Cotton Industries.** General course in cotton industries including the above courses, together with a course in the marketing and handling of cotton from the commercial standpoint. A study of varieteis and variety tests, and selection for improving cotton. Offered to special students who wish to take a short

course in the department of cotton industry. Three hours per week during entire year. Bulletins and other publications referred to during course.

4. **The Cotton Fiber.** A scientific course in the structure of the cotton fiber, with a classification of fibers and their uses. Consideration will be given to the botanical relations of cotton fiber, the effect of ginning and baling, and final uses of the fiber for manufactured products. General reference will be made to the chemistry of the fiber, and the processes of dyeing. Text: F. H. Bowman's Structure of the Cotton Fiber. Three periods, first and second terms. Two lectures and one laboratory period. Juniors who elect cotton industry and general Senior course.

5. **Plant Breeding.** A general course in the principles of plant breeding, with special references to technique in cotton breeding. The course will consist partly of lectures and partly of field experiments. Text: Bailey's Plant Breeding, supplemented by DeVries' Plant Breeding, and numerous references. Three hours, third term. Juniors. Seniors, general course.

6. **Experiment Station Work.** Designed to give a review of experiment stations, their history and influence, a study of the agricultural societies in the United States, and their relation to the history of experiment stations. Some consideration will be given to the land grant colleges. Students who take this course will be required to do a considerable amount of seminar work. Three hours, first term. Seniors.

7. **Research.** Advanced courses will be offered in the principles of plant breeding, in which opportunity will be given for the study of the cytology of cotton, and the cytological aspects of cotton breeding. Three periods per week. One lecture and two laboratory periods, during entire year. Senior students in cotton industry.

This course counts for graduate work when properly supplemented. See announcement of the Graduate School.

For One-Year Students.

A general course made up from courses 1 and 2, cotton industry.

ANIMAL HUSBANDRY.

MILTON P. JARNAGIN, Professor.
J. W. HART, Professor, Extension.
J. L. BISHOP, Adjunct Professor, Extension.
R. M. MURPHY, Instructor.
C. H. McLEMORE, Tutor.

1. **Types and Breeds of Farm Animals.** This course will include a brief study of all the domesticated farm animals. Liberal use will be made of the lantern, in order to familiarize the student with the best specimens of all the leading breeds. Practical work will be given in the afternoons in the judging and handling of animals on the College farm. Two one-hour recitations and two two-hour laboratory periods. First term. *Freshman.*

2. **Horses, Mules and Beef Cattle.** In this course the origin, history and development of the various breeds of horses and beef cattle will be studied. The adaptation of the various breeds and types to different conditions of soil, climate and environment; a comparison of draft and light horses will be made, and especial emphasis laid on the adaptation of the different types of horses and mules to the various kinds of work. Two one-hour recitations each week. First term. Sophomore year.

3. **Dairy Cattle.** In this course the origin and utility of the several breeds of dairy and dual-purpose cattle will be studied. Their adaptation for the production of milk, butter, cheese, or for both milk and beef making will be carefully considered. A comparison of the profits to be derived from the various breeds under different conditions of farming will form an important part of the instruction provided. Two 1-hour recitations each week. Second term. Sophomore year.

4. **Sheep and Swine.** This course embraces a study of the history and development of the various breeds of lard and bacon hogs, both of English and American origin. Especial attention will be given in this course to types of hogs suited to grazing. The history of the various breeds of sheep will be taken up, and comparison of the several classes made. Special emphasis will be laid on growing and marketing hothouse lambs and on classifying wool. Two 1-hour recitations. Third term. Sophomore year.

5. **Stock Judging.** The students will receive training in the use of the score card for the various classes of live stock, and will study the standards of excellence as established by the several breeders' associations. In addition to this they will be given practical work in comparative judging and show irng placing of the various breeding and market classes of horses, dairy and

beef cattle; bacon and lard hogs; fine wool, medium wool, and long wool sheep. Two 2-hour laboratory periods each week. First, second and third term. Sophomore year.

6. **Swine Husbandry.** A specialized study of the underlying principles involved in the swine production will be taken up in this course. It will include class work covering the origin of the breeds of swine, and their adaptation to different sections of the country and market requirements. The principles of breeding, feeding and general herd management of hogs will be studied. The laboratory work will consist of practical work in judging, feeding, dipping and preparing for sale or the show ring. Practical work will be given in building hog houses, paddocks and other necessary equipment, and is planning and laying out yards and pastures for hogs. Two 1-hour recitations and two 2-hour laboratory periods, First term. Junior year.

7. **Principles of Dairying.** This course includes the theoretical and applied side of dairy and creamery practice. A detailed study will be made of the theory of milk secretion, formation, and production; separation of cream by the shallow and deep setting systems, and by the use of centrifugal machines. The natural fermentations occurring in milk, their benefit and control; the manufacturing of butter; the testing of milk and its products of butter fat will be considered in their proper order.

8. **Poultry Husbandry.** This course includes the breeding, feeding and management of poultry, the operation of incubators and brooders, the planning and construction of poultry houses, and the handling of poultry products. Two 1-hour recitations, and two 2-hour laboratory periods. Third term. Junior.

9. **Principles of Breeding.** The principles of breeding include a consideration of selection, heredity, atavism, normal variation and fecundity. The methods of breeding studied include inbreeding, line-breeding, cross-breeding, and a review of the methods by which the best types of animal have been developed. Three 1-hour recitations. Senior year.

10. **Animal Nutrition.** In this course a study of the gross anatomy and physiology of the digestive system is included. The theoretical and practical side of compounding balanced rations for maintenance, milk and butter production, fattening and growth are fully explained. Three recitations per week. Senior year.

11. **Advanced Work in Animal Nutrition.** This course is provided for advanced students in Animal Husbandry. The results of feeding tests at the various Experiment Stations and Agricultural College in this and other countries will be reviewed. Three 1-hour recitations per week. First term. Senior year.

12. **Feeding Problems.** Qualified students will be allowed to assist in conducting feeding tests, keeping records and summarizing results of experimental feeding conducted by the Department of Animal Husbandry. They will also be expected to make analyses of the various feeding stuffs used and to determine the fertilizing value of the excreta obtained from various classes of farm animals. Three 1-hour recitations per week. Second term.

13. **Economics of Animal Production.** In this course the various types and breeds of live stock will be considered in their relation to the utilization of various farm crops; relation to the productiveness of the soil; and the creation of wealth in general. Three 1-hour recitations per week. Third term.

14. **Research Work in Animal Husbandry.** Qualified students will be allowed to carry on investigations in Animal Husbandry under the approval and directions of the professor in charge of the department. Three hours. Senior.

HORTICULTURE.

T. H. McHATTON, Professor.
J. W. FIROR, Instructor.

1. **Elements of Horticulture: Fruit Growing.** A general study of location, site frost, planting, varieties, orchard tillage and management. Book: Principles of Fruit Growing, Bailey; to be supplemented by lectures. Three lectures per week. Required of Freshmen in Fall Term.

2. **Pruning and Propagation.** A course in grafting, budding and other methods of propagation; also a study of the principles of pruning with its practice and effect. A few periods will be devoted to a study of varieties both for the orchard and truck garden. Book: The Nursery Book, Bailey, to be supplemented by lectures. Laboratory course of three periods per week. Required of Freshmen in Winter Term.

3. **Elements of Horticulture: Truck Gardening.** A general study of the main truck crops as to planting, tillage and handling, with the addition of a study of hot-beds and their management. Book: The principles of Truck Gardening, Bailey; to be supplemented by lectures. Three lectures per week. Required of Freshmen in Spring term.

4. **Small Fruits.** A study of the various small fruits of interest to the horticulturist. Three lectures a week for six weeks. Book, Bush-Fruits, by Card. **Fruit Harvesting, Storing and Marketing.** Three lectures a week for six weeks. Book, Fruit Harvesting, Storing, Marketing, by Waugh. Required of Juniors electing Horticulture in the Fall term.

5. **Pomology and Garden Seeds.** A course in the testing of seeds and a study of the several species of fruit with their pomological classification. Book: Systematic Pomology, Waugh, to be supplemented by lectures. A laboratory course of three periods per week, to be carried with course 4. Required of Juniors electing Horticulture in the Fall term.

6. **Greenhouse Management and Floriculture.** A study of the various flower crops, forcing crops and management of a greenhouse. Reference books, Greenhouse Management, Taft; The Forcing Book, Bailey, and Practical Floriculture, Peter Henderson. Three lectures per week. Required of Juniors electing Horticulture in the Winter term.

7. **Greenhouse Construction.** A study of the different types of greenhouses and the heating, construction, etc., of the same. In connection with this course trips to florists and nurseries will be taken to study the plants and greenhouses. A ground plan, end elevation, bill of material and description of heating plant used in a green house will be required of the student at the end of this course. Reference book, Greenhouse Construction, Taft. A laboratory course of three periods per week. Required of Juniors electing Horticulture in the Winter term.

8. **Orchard and Garden Diseases and Pests.** A study of the insects and diseases of economic importance, especial attention being given to their life histories and the injuries caused by them. Reference books: Insects Injurious to Fruits, Saunders; Insects Injurious to Vegetables, Chittenden; Diseases of Plants, Tubeuf & Smith; Massee on Plant Diseases. Three lectures per week. Required of Juniors electing Horticulture in Spring term.

9. **Spraying.** A laboratory course to be given with Horticulture 8. Practice given in the making and application of the different spray mixtures, with a study of their history and chemistry. Reference book, The Spraying of Plants, Lodeman. Three laboratory periods per week. Required of Juniors electing Horticulture in the Spring term.

10. **Landscape Gardening.** A study of the various schools of Landscape Architecture and also of the plants used in producing the various effects. A problem in Landscape Gardening will be given to each student, and a drawing showing his solution required. Book: Landscape Gardening as Applied to Home Decoration, Maynard. Three lectures and three laboratory periods per week. Required of Seniors electing Horticulture in the Fall term.

11. **Literature of Horticulture.** A course in the general history of Horticulture, with a study of the different reference books and papers. Three lectures per week. Required of Seniors electing Horticulture in the Winter term.

12. **Thesis.** The student is here asked to select some problem in one of the divisions of Horticulture, and will be allowed to find the solution in his own way. Time is given for consulting with the instructor so that his help may be obtained from time to time. At the end of the course a thesis stating the problem, the methods followed, and the results obtained will be required of the student. Three lecture hours and three laboratory periods per week. Required of Seniors electing Horticulture in the Spring term.

13. **Graduate Course.** See announcement of the Graduate School.

FARM MECHANICS.

LEROY C. HART, Professor.

W. R. WILSON, Student Instructor.

1. **Shop Work.—Wood Work.** This course is designed for the instruction of the student in the use, care and sharpening of all wood working tools. A carefully planned series of exercises will be made. These exercises bring into use all tools that will be helpful to the student in after life. An advanced course in wood work planned for students having had the preliminary work will be given. This course will consist of the design and building of furniture and other pieces of wood work for the home. Required of Freshmen.

Forge Work. This work is designed to familiarize the student with the building and care of coal fires, the manufacture of iron and steel, and to familiarize him with the working and handling of iron and steel. Tool-making and tempering will be given. Required of Freshmen.

2. **Drawing.** Sufficient time will be devoted to free-hand drawing to enable the student to execute readily the necessary drawings in the various laboratory courses. Instrumental drawing will then be taken up so that the student may become familiar with the use of the instruments and be able to execute rapidly and neatly any drawing of this kind that will be required. Freshman year.

2. (*a*). **Forest Drawing.** Special drill in drawing topographical maps, using all topographic signs used in the United States Topographic Surveys. This course for Forestry students, but may be elected by advanced students.

3. **Farm Machinery.** A study will be mdae of the construction and use of the various farm machines, such as preparation, planting, cultivating, harvesting, storing, home and miscellaneous

machinery. Each group will be taken up separately and studied. Required of Freshmen.

3. (*a*). **Dynamite.** As dynamite has come to be of considerable importance in agriculture a short review of its manufacture and use will be given in connection with Farm Mechanics 3.

4. **Farm Motors.** Considerable time will be given to study and operation of the gasoline engine, the steam engine and the electric motor. This course is taken up in connection with Farm Mechanics 3. Required of Freshmen.

5. **Farm Surveying.** This work will consist of the study and the use of farm levels, compass and transit in terracing, leveling and the survey of farm lands and also their use in road building. Each student will be required to make a thorough map of a plot of ground to be selected and compute the area of same. The use of these instruments in tile drainage will be taken up and a survey and map made of a plot of ground needing drainage. Required of Freshmen.

5. (*a*). **Forest Surveying.** An advanced course in the use of the compass, level, plane table and transit with special attention given to the different uses of these instruments in topographic and reconnoissance work. The work will consist of a hasty survey of a plot of ground, then a more careful survey will be made as a check upon the first method to illustrate the difference in accuracy. This will enable the student to determine the method to be used on all future work. Work required in the Sophomore years for all Forest students, but may be elected by other students who have had Farm Mechanics 5, or its equivalent.

5. (*b*). **Saw Mill Construction.** In view of the fact of the scarcity of proper heavy timber for construction, a course will be given dealing with the built-up members for heavy framing. This course will deal with the framing of saw mill buildings and other structures using heavy timbers. Forest students. Sophomore year.

6. **Fencing.** This will include a study of the strength and adaptability of various material for fence construction. The principles of construction of gates and of bracing at the corners and at sufficient points according to the condition of the ground will be emphasized particularly. Junior year.

7. **Farm Building.** This course consists of the study and design of farm buildings. Starting with the simplest and gradually working up to the most complicated by progressive steps. Plans are drawn and from these the bill of material and an estimate of the cost of the completed structure is made. Special attention will be given to farm convenience and sanitation. Considerable time will be spent in studying problems of lighting,

heating, water supply and sewerage for the farm home. Farm Mechanics 2, or its equivalent, are prerequisite to this course. Junior year. Second term.

7. (*a*). **Saw Mill Machinery.** This course consists of a study of saw mill machinery, such as saw mills, both portable and stationary, with all necessary machinery for the complete handling of the lumber from the log to the dry kiln; donkey engines, skidders, logging locomotives and logging cars. Required of Forest students, Junior year.

7. (*b*). **Wood Physics.** A study of the strength of wood under different conditions and shapes, also the physical effect of moisture heat and preservatives upon its strength will be taken up. Required of forest students, Junior year.

7. (*c*). **Wood Preservatives.** The structural physical properties of wood in relation to durability; the primal cause of decay; factors governing the lasting powers of different species; the preservation of woods by the application of paints and oils to the surface, the impregnation with creosote and other wood preservatives, the commercial method of impregnation, description of preserving plants and the fire proofing of timber. Required of Forest students, Junior year.

8. **Concrete Construction.** A study will be made of the principles of concrete construction, also the material, forms, mixing and placing and tamping will be taken up in order and thoroughly studied. Their application to farm conditions and the various uses to which concrete has been put in late years will be pointed out. Special attention will be given to its use for residences and barns. The construction of fence posts from concrete will be taken up. Optional for Seniors. Farm Mechanics 2, 6 and 7 prerequisite, or their equivalent.

8. (*a*). **Concrete Construction.** An advanced course in the testing of cements and concretes under different conditions and shapes will be given. Optional for Seniors.

8. (*b*). **Concrete Construction.** A course designed to show the applications of concrete in forest engineering. The method of using natural aggregates will be studied. Forest students, Senior year.

9. **Road Building.** A study will be made of the various types of machinery used in road construction. Practice work will be given in locating roads on the most desirable grades with special attention to drainage. Considerable time will be devoted to road material, and tests of the various kinds. Optional for Seniors. Farm Mechanics 5, prerequisite to this course.

9. (*a*). **Forest Roads.** This consists of a special study of earth

roads and tramways in connection with their use in lumbering. Required of Forest students, Senior year.

Note.—No. 8 and No. 9 will constitute half a year's work.

VETERINARY SCIENCE.

W. M. BURSON, Professor.
H. H. ROTHE, Instructor.

1. Consists of lectures and demonstrations covering the Anatomy and Physiology of the animals of the farm. Special attention is given to the anatomy of the horse and cow with variations occuring in other farm animals. Histology is taught by lectures and by examination of animal tissues under the microscope. Materia Medica is taught by lectures, examination of specimens of crude and prepared drugs and medicines. First, second and third terms. Two hours per week. Sophomore year.

2. Consists of laboratory work in the above subjects. First, second and third terms. One laboratory period per week. Sophomore year.

3. Consists of lectures on Pathology, Bacteriology, Parasitology, Theory and Practice, and Lameness. First, second and third terms. Two hours per week. Junior year.

4. Consists of laboratory courses in Pathology and Bacteriology. First and second terms. One laboratory period per week. Junior year.

5. Consists of lectures in Theory and Practice, Therapeutics, Surgery, Dentistry, Obstetrics and Contagious Diseases. First, second and third terms. Senior year. Two hours per week.

6. Consists of free clinics held during the school year at the Veterinary Hospital. Third term. Junior year. First, second and third terms. Senior year.

AGRICULTURAL CHEMISTRY.

W. A. WORSHAM, JR., Professor.
L. M. CARTER, Adjunct Professor, Extension.
D. B. LONG, Adjunct Professor, Extension.
R. S. HOLLINGSHEAD, Instructor, Extension.

1. **Organic Chemistry.** This course consists of the study of the classification and relation of the carbon compounds, and the preparation of the simpler and more important ones.

Stress will be laid on those compounds relating most directly to agriculture, such as the organic compounds in the soil, feeds, foods, and organic food adulterants.

Students taking this course must have had elementary Chemistry 1, or Inorganic Chemistry 2, including work in laboratory.

Haskins & Macleod Organic Chemistry will be used as a basis of this work. Three hours of lectures and recitations and one laboratory period during first and second terms of Sophomore year.

2. **Qualitative Analysis.** In this course a study will be made of the characteristic properties and the reactions of the common metals and the acid radicals, and the general principles underlying qualitative analysis. By systematic work with known substances and then "unknowns" the student will be able to familiarize himself with the processes employed in qualitative analysis. This course is designed to enable the student to know the composition of all ordinary substances, particularly those that are of most importance in agriculture. Text: Noyes' Qualitative Chemical Analysis; special problems outlined by the instructor.

Two hours of lectures and recitations, and two laboratory periods during third term of Sophomore year, and two hours of lectures and recitations and four laboratory periods during first term of Junior year.

2*a*. **Qualitative Analysis.** Course adapted to needs of students in Forestry.

3. **Quantitative Analysis.** The object of this course is to prepare the student for special work in agricultural chemistry as well as to teach the method of quantitative analysis.

The methods of both gravimetric and volumetric analysis will be treated in lectures and the practice carried out in the laboratory. Substances of known percentage composition will first be analyzed and then substances of unknown composition, including the simpler agricultural products. Texts: Elementary Quantitative Agricultural Chemical Analysis, Lincoln & Walton. Reference books: Quantitative Analysis, by Treadwell, Olsen, and Fresenius.

3*a*. **Quantitative Analysis.** Course adapted to needs of students in Forestry. Gums and resins will be given special attention.

4. **Advanced Quantitative Analysis.** The basis of the work in this course will be the study of the methods employed in soil investigations, the analysis of soils, fertilizers, feeds, waters, etc. Some latitude will be allowed the student as to the substances to be analyzed. Students taking this course must have had Agricultural Chemistry 3. No text-books required. Work for laboratory will be outlined and standard references given.

Two hours of lectures and recitations and four laboratory periods for three terms during Senior year.

Fees.—No laboratory fees are charged for any of the courses offered in this department.

A deposit of $5.00 will be required for each laboratory course to cover breakage of apparatus. If any of this amount is left it will be returned to the student at the end of the year.

FORESTRY.

ALFRED AKERMAN, Professor.
J. T. KOLLOCK, Student Assistant.

Work of the School of Forestry.

The school was created in 1905; and work was begun with the academic year 1906-1907. Several lines of work have been undertaken: (1) Instruction in Forest Economics, to bring out the importance of our forests to the state and to the nation; (2) Elementary instruction in forestry, to familiarize the agricultural students with the management of farm woodlots and the execution of forest working plans; (3) Instruction in professional forestry, for those who intend to go into the lumber business, or to follow forest engineering as a profession; (4) Popular education in forestry throughout the state; (5) Coöperation with the owners of woodlands.

The work along the first line is embodied in course 1; along the second line courses 2 and 3; along the third line in courses 4, 5, 6, 7, 8, and 9; along the fourth line in publications and in lectures before schools, farmers' institutes, lumbermens' associations, and other interested organizations; along the fifth line in the coöperative agreement which the College of Agriculture makes with woodland owners.

Description of Courses.

1. **Forest Policy.**—A study of the public's interest in forests. The development of the forest policies of Germany, France, Switzerland, Great Britain, the United States, and the several states. Instruction by lecture. Three hours. *Required of Seniors in Forestry.*

2. **Farm Forestry.** A study of forestry as applied to farm woodlands. The course is designed to give a working knowledge of how to secure a stand of timber, how to thin, protect, and harvest the forest crop. Text: Akerman's "Farm Forestry." Two 1-hour recitations and one 2-hour practice period, third term. *Required of those taking the one-year course in Agriculture.*

3. **Farm Forestry, Longer Course.** Similar to course 2, but adapted to more advanced students. Two 1-hour lectures and one 2-hour practice period, second half year. *Optional with Seniors in Agriculture.*

4. **Dendrology.** This course comprises a botanic and economic study of forest trees. Identification of species in the woods in summer and winter habit is given special attention. Instruction is given by lectures, laboratory work, and excursions. Reference work: Sargent's "Manual of the trees of North America." Three hours, Sophomore year. *Required of Sophomores in Forestry.*

5. **Silviculture.** A study of forest stands from their founding to maturity, including artificial and natural reproduction, tending the stand, and silvical notes on the important species. Instruction by lecture, excursion, and practice. Three hours, Junior year; six hours first term of Senior year. *Required of Juniors and Seniors in Forestry.*

6. **Forest Protection.** A study of the injury to the forest from trespass, fire, storms, insects, fungi, and grazing, and of protective measures. Instruction by lecture, excursion, and practice. Six hours, third term. *Required of Seniors in Forestry.*

7. **Forest Mensuration.** Computation of contents of logs, standing trees and forest stands; studies in diameter, height, and volume increment; the use of instruments of mensuration; occular estimation of timber; log scales and their use. Instruction by text, supplemented by lectures and practice in the woods. Text: Graves' "Forest Mensuration," and Cary's "Manual." Six hours first term, Senior year. *Required of Seniors in Forestry.*

8. **Forest Management.** Forest valuation, financial returns from forest property; principles of forest working plans; construction of a forest working plan for a given tract. Instruction by lecture, with practice in the woods. Senior year, six hours second and third terms. *Required of Seniors in Forestry.*

9. **Lumbering and Utilization.** A study of the lumber industry, and the uses of wood; the methods employed by lumbermen, and their improvement; felling, transportatation, and manufacture. An essay on some branch of the lumber industry is required. Instruction by lectures, supplemented by reading and investigation. Six hours, second term, Senior year. *Required of Seniors in Forestry.*

SUMMER TERMS.

Candidates for degree are required to live for two months each summer between the Sophomore and Junior, and Junior and Senior years at a lumber camp, sawmill, or turpentine distillery, to keep a diary of each day's work, to make a herbarium of the forest flora of the locality, and prepare a thesis on the operations being carried on. It is preferred that students secure some employment connected with the operations.

CO-OPERATION WITH LUMBERMEN.

The College furnishes an expert to examine woodlands and prepare suggestions as to their management. Those who desire advice in the management of woodlands or in planting waste lands should make application on blanks which are sent on request.

MATHEMATICS.

C. M. SNELLING, Professor.
R. P. STEPHENS, Associate Professor.
R. S. POND, Instructor.

(Of the following, Courses 1, 2, 3, and 4 will be required of all students for graduation. However, those who entered in 1911 must take Course 3*a*, instead of Courses 3 and 4).

1. **Trigonometry.** A course in Plane and Spherical Trigonometry. Three hours per week for the first two terms. Texts: Murray's. *Professors Snelling and Stephens and Dr. Pond.*

2. **Graphical Algebra.** This will include a study of coördinates, the plotting of curves, and the derivation of the equations of the straight line and the circle. Three hours per week for the third term. *Professors Snelling and Stephens and Dr. Pond.*

CIVIL ENGINEERING.

C. M. STRAHAN, Professor.
E. L. GRIGGS, Associate Professor.
J. C. KOCH, Adjunct Professor.

(Student Assistants: C. D. Flanigen, and R. T. Goodwyn).

Civil Engineering Courses.

A-1. **Elementary Surveying.** A course covering the use, care, and adjustment of surveying instruments, methods of surveying by chain alone, by compass, and by transit; the methods of platting and computing areas, and volumes; the variation of the magnetic needle; problems in parting off and dividing lands; the use of the Y level and precise leveling; plane table and stadia surveying, and the use of the solar transit. Three hours per week. Text: Breed and Hosmer's Surveying. *Professor Griggs.*

B-1. **Materials of Construction.** A course of lectures and laboratory work covering the occurrence, preparation, and manufacture of the important structural materials, to-wit: lumber, its seasoning, inspection, and preservative treatment; stone, natural and artificial, including brick, terra cotta, cements, concrete blocks, etc.; the metals, including cast iron, wrought iron, steel, copper, tin, lead, zinc, aluminum, and alloys as used by engineers; uniting materials. covering limes, mortars, cements, bituminous binders, joinery, rivetting, etc. First and second terms. The third term is given to Foundations and Masonry structures, the course being based on Baker's Masonry Construction. Three hours per week. *Professor Strahan.*

B-2. **Railroad Engineering.** A course covering reconnoissance, preliminary and location surveys, curves, spirals, switches, etc., cross-sectioning, computations and estimates, railroad economics and the various other problems involved in the complete engineering of railways. Three hours per week. Text: Webb's Railroad Construction. Lectures. *Professor Strahan.*

B-3. **Highway Engineering.** A course of lectures, laboratory and field problems covering the surveys, location, drainage, grading and surfacing of public highways and city streets. The preparation of maps, profiles, and estimates. Paving methods and specifications. Road finances, equipment, and labor. Three hours per week. *Professor Koch.*

PHYSICS.

L. L. HENDREN, Professor
E. T. MILLER, Instructor.

The following courses are offered for Agricultural students. For other courses see the A. & M. College announcements.

1. **Elementary Physics.** Text-book, Millikan and Gale's First Course in Physics. Three hours per week recitation and two hours per week laboratory work. Required of Junior B. S. Ag. students who have not received credit for one unit of entrance work in Physics.

2. **General Physics.** A course in Mechanics, Molecular Physics, Electricity and Magnetism. Prerequisite one year of elementary physics. Text-book, Kimball's College Physics, with special laboratory notes. Three hours per week recitation and two hours per week laboratory work. Required of B. S. Ag. students who have received credit for one unit entrance work in Physics.

3. **General Physics.** The same as course 2 with two additional hours of laboratory work. Required of Freshmen in the B. S. Engineering Course of Forestry.

CHEMISTRY.

H. C. WHITE, Professor.
H. V. BLACK, Associate Professor.
C. A. WELLS, Instructor.

The following courses are offered:

1. **Elementary Chemistry.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, Outlines of Chemistry.

2. **Inorganic Chemistry; College Course.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, Outlines of Chemistry.

BIOLOGY.

J. P. CAMPBELL, Professor.

P. L. HUDSON, Student Assistant.

In this School the following courses are offered for the ensuing year:

3. **General Invertebrate Zoölogy.** This course is based upon the laboratory study of a selected series of types representing most of the main divisions of the kingdom. Arthropods are studied in the first term, Mollusca, Annulata, and the smaller phyla in the second, and Echinoderms, Coelentera and Protozoa in the third. The morphological point of view predominates, but attention is also given to physiology, ecology, embryology, and classification, and in addition, each group is made to illustrate some important theoretical question to which it is especially adapted. Three hours weekly with laboratory work additional.

4. **General Vertebrate Zoölogy.** This is the continuation of course 3, and the same general methods prevail. The protochordata are first taken up with a discussion of the theoretical questions that they involve, after which the various vertebrate classes are considered, attention being given to structure, ecology, classification, economic problems, etc. One hour weekly, with laboratory work additional.

5. **Morphology of Vertebrates.** In this course attention is given to the Embryology and Comparative Anatomy of Vertebrates as well as to the leading theoretical questions which the study of this group presents. The laboratory work accompanying consists of additional Vertebrate dissections and work in Histology and Embryology. Two hours weekly.

6. **Animal Physiology.** This course is planned for students who have a good knowledge of elementary Physiology, equal in scope to that given by course 1, and who have in addition a good working knowledge of Physics and Organic Chemistry. Special topics are taken up for fairly exhaustive treatment, and the effort is made to bring the student into touch with the latest developments of the subject. The laboratory work consists in part of Physiological Chemistry, and in part of Experimental Physiology. Three hours weekly with laboratory work additional during the second and third terms.

Note.—Seniors who have completed courses 1 and 3 may take either 4 and 5, or 4 and 6.

Note.—Seniors who expect later to take up the study of medicine may, if they prefer, take courses 4 and 6. (See State College). This can only be allowed to students who have a good knowledge of elementary Physiology.

BOTANY.

J. M. READE, Professor.

The following courses are offered under the conditions prescribed in the curricula of Science, Agriculture, and Forestry.

A laboratory fee of $2.50 is charged for each course.

1. **Elementary Botany.** An introductory course dealing with the main facts of the biology and structure of plants. Prerequisite to all other work in the subject. Class and laboratory periods both twice weekly.

2. **Morphology and Development of Higher Plants.** A general account of the mosses, ferns and seed plants. Course 1 is prerequisite. Class and laboratory periods both twice weekly.

3. **Histological Methods.** A laboratory course in the methods of preparing and studying microscopic plant structures. A half course. Chamberlain, Methods in Plant Histology. Course 1 is prerequisite.

4. **Mycological Methods.** A laboratory course in the methods of cultivating and studying bacteria and fungi. A half course. Course 1 is prerequisite.

5. **Morphology and Biology of Bacteria.** A general account of the group. Course 1 is prerequisite.

6. **Morphology and Taxonomy of the Fungi.** A general account of the structure, development and classification of the Eumycetes. Course 1 is prerequisite. Class and laboratory periods both twice weekly.

7. **Morphology and Biology of the Algae.** A general account of the group. Course 1 is prerequisite.

8. **Fungi and Plant Diseases.** A laboratory and field study of Bacteria, Myxomycetes and Eumycetes in relation to plant diseases. Courses 1, 4 and 6 are prerequisite.

9. **Physiology of Vascular Plants.** A field and laboratory study of the physiological processes of higher plants and their accomplishment under environmental conditions. Courses 1 and 2 are prerequisite. Class and laboratory periods both twice weekly.

10. **Ecology.** A geographical and dynamical study of vegetation. Courses 1, 2 and 9 are prerequisite.

The remaining courses are announced and may be given if conditions warrant it.

11. **Physiology of Reproduction.** A lecture course dealing with the facts and theories of variation and inheritance.

RHETORIC AND ENGLISH LITERATURE.

R. E. PARK, JR., Professor.
S. V. SANFORD, Junior Professor.
S. M. SALYER, Instructor.
H. A. NIX, Tutor.

1. **Composition and Rhetoric.** Detailed study and practice in construction and kind of composition. This course will involve continual practice in writing and some work in rhetorical analysis. Lectures, themes, daily exercises. *Required of Freshmen.* Three hours a week. *Professor Sanford and Mr. Salyer.*

2. **English and American Literature.** The principles of literary criticism and the practical applications of these principles to masterpieces of authors studied with reference to (1) elements of literature, (2) species of literature, (3) historical development. The object of this course will be to give to the student a general view of the history and development of literature, with more detailed knowledge of certain periods. Throughout the course much attention will be devoted to the writing of essays as a means of training the student to appreciate and to express his appreciation of the literature studied. *Required of Sophomores.* Three hours a week. *Professor Park and Mr. Salyer.*

HISTORY AND POLITICAL SCIENCE.

J. H. T. McPHERSON, Professor.
W. O. PAYNE, Associate Professor.
R. P. BROOKS, Adjunct Professor.

1. **Greek and Roman History,** with a brief review of the early Oriental nations, and continued through the period of mediaeval history ending with the Treaty of Verdun. *Optional for Freshmen* who do not offer Ancient History for entrance. Three hours per week throughout the year. Text: Myers's "Ancient History." *Associate Professor Payne.*

2. **European History.** In this course one or more characteristic periods of European History are studied intensively. The periods considered and texts used are changed from year to year. During the present session the Sixteenth and Seventeenth Centuries were studied, with Johnson's "Europe in the Sixteenth Century," and Wakeman's "The Ascendency of France," as texts. *Required of Freshmen*, except (1) those admitted to History 1, and (2) Freshmen in the B.S. in Agriculture Course. Three hours weekly throughout the year. Four sections. *Professor McPherson, Associate Professor Payne, and Adjunct Professor Brooks.*

3. **History of Georgia.** A short course embracing a sketch of the political history of the State, from the beginning up to the

present time, and a study of the Civil Government of Georgia. One hour per week throughout the year. Text: McPherson's "The History and Civil Government of Georgia." *Required of Freshmen. Adjunct Professor Brooks.*

4. **Political and Constitutional History of England.** Especial attention is paid to the development of Parliament, the Cabinet, and the phases of local government—township, parish, manor, hundred, and county—with the object of laying a thorough foundation for the subsequent study of American institutions. The progress of contemporary European events is kept constantly in view. Three hours per week throughout the year. Text: Gardiner's "History of England." Four sections. *Associate Professor Payne, and Adjunct Professor Brooks.*

14. **Economics.** A course at once introductory and advanced, designed to give mature students a grasp of the principles and a survey of the field of Economics. Text: Seligman's "Principles of Economics." Three hours per week, first and second terms. *Professor McPherson.*

15. **Economic History of the United States.** The principles acquired in History 14 are here applied in a systematic review of the economic and financial experience of the country, and in a careful study of the leading problems of the day. Taxation, Banking, Tariff, Railway, Municipal, Trust, and Labor problems are given detailed consideration. Three hours per week, third term. *Professor McPherson.*

German.

1. **German 1** is a course for beginners who are conditioned in German and wish to substitute both German and French for Greek in the A.B. degree. For 1911-12 this course comprised an elementary grammar and reader, with daily written and oral exercises in parsing and in translation from English into German. Three hours per week. *Professor Morris and Adjunct Professor DuBose.*

2. **German 2** continues the work of German 1, and completes the requirement for entrance given on page 31. The course consists of translation of simple texts, and exercises in both speaking and writing German. Three hours per week. *Professor Morris and Adjunct Professor DuBose.*

ROMANCE LANGUAGES.

J. LUSTRAT, Professor.
W. T. TURK, Tutor.

French.

1. **French 1** is a course for beginners who are conditioned in French and wish to substitute both French and German for Greek.

The course consists of careful drill in pronunciation, the rudiments of grammar, the study of regular and irregular verbs, the inflection and use of personal pronouns, the rudiments of syntax, dictation, easy exercises of translation from English into French, conversation, and the reading of about 275 duodecimo pages of easy prose. Three hours per week.

2. **French 2** is the continuation of course 1, for students who are conditioned in French and wish to substitute both French and German for Greek. It will comprise the reading of about 400 pages of easy modern prose, constant practice in translating into French easy English prose, dictation, short drill in grammar and syntax, full study of all irregular verbs, and conversation. Three hours per week.

PHILOSOPHY AND EDUCATION.

T. J. WOOFTER, Professor.
— — ————, Associate Professor.
HOWELL B. PEACOCK, Tutor.

Philosophy.

1. **General Psychology.** An introductory course giving a survey of the field of Psychology with special emphasis on its functional and genetic phases. First half year. *Mr. Peacock and Professor* ————.

Education.

1. **History and Principles of Education.**

(*a*) History of Education. The educational doctrines and practices of the great peoples of the world with special study of the modern period, (1) the development of modern educational ideals and systems, and (2) the development of secondary schools.

(*b*) Educational Psychology. An introduction to the science of education.

2. **Educational Sociology.**

GEOLOGY.

Vacant.*

1. **General Geology.** Three hours per week, second half-year. The course of instruction is at first a general one, embracing the study of the distinguishing properties of minerals and common rocks, the decay of rocks and the formation of soils. Following this is a more extended course of Structural, Dynamical and Historical Geography.

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*Temporarily in charge of the professor of Chemistry.

MILITARY SCIENCE AND TACTICS.

J. A. ATKINS,

2nd Lieut., 16th U. S. Infantry, Commandant.

In accordance with the provisions of the Land Grant Act, military exercises are regularly held in this College, upon which the attendance is compulsory by members of the Freshman, Sophomore and Junior classes, and the students in the One-year Course in Agriculture, except when excused by the surgeon of the Corps of Cadets.

The uniform consists of a coat of standard Charlottesville gray cloth; winter trousers of same material, with stripe one inch wide; and blue cap. The uniform costs about $15.55. For spring use white duck trousers, jeans trousers and blue shirt, leggins and hat are required, costing about $4.50.

Practical instruction is given three hours each week, covering the following subjects: Infantry Drill Regulations; Field Service Regulations; Manual of Guard Duty; Firing Regulations for Small Arms; Artillery Drill Regulations, partial.

Theoretical instruction, two hours each week, for commissioned and non-commissioned officers, is given in the portions of the above subjects covered by the practical instruction, and is supplemented by lectures. *One hour each week of theoretical instruction is required of Freshmen.*

ONE-YEAR COURSE IN AGRICULTURE.

This course commences at the opening of the fall session and continues throughout the collegiate year. The purpose of this course is to provide suitable instruction for those who can only remain in college for one year. An effort has been made therefore to condense the work as much as possible, provide a correct scientific foundation, and yet make the instruction of a very practical nature. An outline of the one-year course follows. The schedule indicates the number of hours required in each subject and the amount of time devoted to class room and laboratory work. Notice that the laboratory instruction has been emphasized as this is considered the best way of demonstrating the value of applied science to the solution of the problems of the farmer. Students entering this course who are capable of carrying the Freshman Mathematics or English may be permitted to do so upon the approval of the President of the College.

ONE-YEAR COURSE.

First Term.

	Hours.	Lab. Periods.
English	3	..
Arithmetic	3	..
Cereals	2	..
Cereal Judging	..	1
Soils	3	..
Iron and Wood Work	..	3
Horticulture	3	1
Breeds and Breeding	3	2
Botany	3	..
Veterinary Medicine	3	..
	23	7

Second Term.

	Hours.	Lab. Periods.
English	3	..
Arithmetic	3	..
Cotton and Cotton By-Products	3	1
Cotton Grading (Cotton School)	..	..
Soil Fertility	3	..
Farm Machinery	..	1
Horticulture	2	1
Dairying	1	2
Feeds and Feeding	3	1
Farm Management	2	..
Veterinary Medicine	2	1
	22	7

Third Term.

	Hours.	Lab. Periods.
English	3	..
Farm Accounts	3	..
Grass and Forage crops	3	1
Chemistry	3	..
Plumbing and Pipe Fitting	3	1
Horticulture	3	1
Farm Buildings	..	1
Practice Work Animal Husbandry	..	1
Surveying	3	1
Forestry	2	1
Veterinary Medicine	2	..
	22	7

AGRONOMY.

Cereals and Cereal Judging. The history, use, and cultivation of the different cereals will be studied. Especial attention will be given to seed selection as influencing the yield of farm crops. A study of the various cereals, especially corn, will be made by use of the score card. First term. Three 1-hour recitations and one laboratory period.

Farm Management. An examination of the various business methods employed on different classes of farms is first undertaken. Special attention is given to systematizing the work and determining the effect of various rotations on the maintenance of fertility. A stereopticon is used to show how various kinds of farms should be arranged so as to conduct the busines with the greatest economy.

Grass and Forage Crops. A study is made of the various grasses adapted to this state that can be utilized to the best advantage for pasturage and hay. The uses of the forage crops, especially the legumes, are given considerable attention. Methods of growing and preserving silage are considered at length, as this is undoubtedly the best form for preserving forage crops in the South.

Soils. A study of the physical properties of soil is made, and the effect of good and poor mechanical conditions on crop production is demonstrated. Methods of improving the physical conditions are studied. Special attention is given to the water-holding capacity of the soil, and the best methods of conserving soil moisture. First half-year. Three 1-hour recitations.

Soil Fertility. The different fertilizing ingredients and their function in plant growth will be discussed. Methods of mixing fertilizers and determining the formulas best adapted to different soils will be studied. The effect of rotation of crops on soil fertility and the draft of the different crops on the soils will also receive attention. Second half-year. Three 1-hour recitations.

COTTON INDUSTRY.

Emphasis is laid on the importance of seed selection. A study of types of plants with special reference to their yielding capacity will be made, and the conditions affecting length, strength, uniformity, quality and quantity of fiber. Some attention will be given to combing and grading cotton, and all varieties will be studied in the seed in the laboratory. There will also be a complete set of grades of long staple and upland lint cotton in the laboratory for inspection and comparison, and students will be required to grade some cotton by the samples, after the basis of grading has been pointed out to them. Second term. Three 1-hour recitations.

ANIMAL HUSBANDRY.

Breeds and Breeding. A practical course will be given in the study of domesticated animals, and a consideration of the fundamental laws underlying their production. Three 1-hour recitations.

Dairying. In this course lectures will be given on the principles of modern dariying and on the manufacture of butter, cheese, and other products. Practice work in the operation and repair of dairy machines will be required of all students. The use of the Babcock test, and other apparatus for the detection of adulteration of milk will be fully explained. One lecture and two laboratory periods. Second term.

Feeds and Feeding. In this course a study of the various feeding stuffs will be taken up. The balancing of rations and their adaptation for maintenance, development of bone and muscle, production of milk and butter, and for maintaining and fattening farm animals will be discussed and explained. Three 1-hour recitations and one laboratory period. Third term.

Stock Judging. Scoring, judging and classifying the various clasess of farm live stock will form an important part of this course. After the student has become proficient in the use of the score card, work will be given in comparative judging and show-ring placing. The standard of excellence as established by the several breeders' associations will also be given some attention. First term. Two laboratory periods.

HORTICULTURE.

Orchards. A study of orchards as to location, site, exposure, cultivation, fertilization, planting, pruning, spraying, thinning, harvesting and marketing. Book to be used, Principles of Fruit Growing, by L. H. Bailey. Three 1-hour lectures and one laboratory period per week. First term.

Propagation and Pruning. A study of budding, grafting, and other methods of plant manipulation and propagation, with a course in the principles and practice of pruning. Three lectures and one laboratory period per week. Second term.

Small Fruit and Trucking. A course in the management of small fruit plantations and truck gardens, following much the same order as the orchard course. Particular attention will be given to the construction and management of hot beds as well as to the principal small fruit and vegetable crops of the section. Book: The Principles of Vegetable Gardening, Bailey. Three lectures and one laboratory period per week. Third term.

FARM MECHANICS.

Wood Work. This will include the care and use of wood working tools. It will be made as practical as possible. The majority of the exercises will consist of the construction of articles that will be needed on the farm, such as gates, fences, wagon beds, and other farm conveniences. First term. Two laboratory periods. Alternates with forge work.

Forge Work. This course will include welding and shaping of iron and handling of steel. Considerable attention will be paid to the making and tempering of small hand tools. A student after taking this course will be able to do all of the ordinary repairs of farm machines and other blacksmithing that will be necessary in farm work. First term. Two laboratory periods per week. Alternates with woodwork.

Farm Machinery. A study of the principles of construction and operation will be made. Considerable time will be given to studying the individual parts of the different farm machines, by taking them apart and assembling them. Considerable time will be devoted to motors, especially gasoline and steam engines. Third term. Two laboratory periods.

Farm Buildings and Fences. The strength and adaptability of the materials available for construction will first be determined. Principles of construction will be studied, and considerable time given to planning the different farm buildings with especial regard to convenience and sanitation. The use of concrete on the farm will be pointed out and principles of concrete construction illustrated. Laboratory practice will constitute an important part of the work. One lecture and two laboratory periods per week.

Farm Engineering. Instruction will be given in the use of the instruments necessary in surveying farm lands, terracing, and locating of roads. Considerable time will be given to the location of farm buildings, roads, terracing, leveling, and tile drainage. One lecture and one laboratory period per week.

Plumbing and Pipe Fitting. A short course in plumbing and pipe fitting will be given in connection with Farm Buildings. It will consist of the location and plannning of the water supply and drainage away from the home, and the proper laying out of a perfectly sanitary system of plumbing for all buildings. The proper assembling and selection of the material needed for a complete job, and the calking of all joints, etc., will be fully studied.

VETERINARY SCIENCE.

1. Consists of lectures in the anatomy and physiology of the horse, with brief notice of the variation occurring in the other

farm animals. Lectures on Materia Medica cover the more commonly used drugs and medicines, paying particular attention to the action and dosage of the drugs. First term; three hours per week.

2. Consists of lectures on Theory and Practice, and Surgery; deals with the most common diseases of the horse and cow and the minor operations that are performed on these animals and the care of surgical and accidental wounds. Second term; two hours per week.

3. Consists of free clinics held at the Veterinary Hospital. One hour per week; second and third terms.

4. Consists of lectures on Obstetrics and Dentistry. Two hours per week; third term.

AGRICULTURAL CHEMISTRY.

This course is planned to prepare the student for intelligent study of the chemistry of soils, fertilizer and foods. At first the elements and compounds most important to agriculture will be taken up. The composition of farm crops, and the application of chemistry to plant and animal life will be studied. Text: Chemistry of the Farm, by Warrington. This course consists of three lectures during last half of the year.

FORESTRY.

A study of forestry as applied to farm woodlands. How to secure a stand of timber, how to thin, to protect, and harvest the forest crop. Second half-year. Two 1-hour lectures and one 2-hour practice period.

THREE-MONTHS OR WINTER COURSE IN AGRICULTURE.

Short courses of instruction in agriculture and related subjects are offered for the benefit of those who are engaged or expect to engage in farming, and yet who are so situated that they cannot undertake a full college course of study. This course is given during the winter when work is least pressing and the time can best be spared. The course consists principally of the regular work provided during the winter term of the one-year course, with such additional elective subjects as the student finds he can conveniently carry upon consultation with the President of the College.

Those desiring to take this course can familiarize themselves with the nature and character of the work by referring to the schedule of the one-year course for the second term. Considerable extra work may be taken if desired. Certain subjects may also be dropped and others elected to meet the wishes of the student. Requirements for admission to this course and the cost have already been mentioned and need not be again detailed here. Those intending to take this course of instruction are urged to write to the College authorities some time in advance so that suitable arrangements can be made for them.

SHORT COURSES FOR FARMERS.

In Cotton Industries, Cereal Production, Live Stock Farming and Horticulture.—The popularity of the Cotton School conducted annually by the College of Agriculture and the desire for instruction on a wider range of subjects pertaining to an advanced agricultural practice makes the re-adjustment of the work of the Cotton School advisable. While this course is retained and its character improved in many particulars, other courses have been added designed to meet the needs of Georgia farmers who desire to specialize in cereal production, animal industries and horticulture. Those attending the short courses for farmers next winter will therefore have an opportunity of specializing along four distinct lines, which will permit former students to return and continue their studies, and enable new studentts to specialize along the line of primary interest to them.

The Farmers' Short Courses are held in Agricultural Hall, one of the best academic buildings in the south, and admirably equipped in every respect for instruction in all phases of agricultural industries. The College of Agriculture has a staff of twenty experts, and those attending will have the privilege of conferring with these men and acquiring as much information outside of the regular course as their time will permit. The courses are intensely practical, and according to the testimony of former students have repaid them many times over for the expenditure of time and money required to take them. Shakespeare said, "There is a tide in the affairs of men which taken at the flood leads on to fortune." These courses afford the opportunity thousands of Georgia farmers have been looking for. Do not neglect this chance to increase your knowledge and advance your status as a citizen.

The object of these courses is to present this information at a minimum of cost and in a concrete form, so that the facts may be applied successfully in every-day work on the farm. Admission to this course is free, a registration fee of $1.00 being charged to cover incidental expenses. The cost to the student therefore, consists of board while in Athens and railroad fare, or from $15.00 to $25.00. This means that practically a free course of instruction in the technique of cotton production is provided for the farmers of Georgia.

The ages of those attending this course range from 18 to 60 years, so that the students entering are a representative body of men. This course is not intended for irresponsible boys, but for those who are actually engaged in farming, and the instruction has been so arranged as to provide the largest amount of useful information in the shortest possible time. The success of these courses means that they will be continued as a permanent feature of the work of the State College of Agriculture. The session for 1913 will open on January 6th, and continue for ten days. The work will be so arranged that those desiring to remain for more than ten days may do so.

COURSES IN COTTON INDUSTRIES.

Ten Lectures on the Soil, including a discussion of its origin, character, composition and utility for crop production.

Ten Lectures on Fertilizers, including a discussion of the essential elements of plant food and methods of purchasing, mixing and applying these various constituents to the soil for the purpose of producing maximum crops at a minimum of cost.

Five Lectures on the Cotton Plant. These will include a consideration of the origin and composition of the plant, and conditions most favorable for its growth and development, and will include a discussion of varieties.

Five Lectures on Cotton Cultivation. These include methods of seed selection which may be adopted and successfully practiced by farmers for the improvement of the quality of the staple.

Five Lectures on Cotton Diseases. The principal diseases affecting cotton, the causes so far as known, and the best methods of combating and eradicating them will be discussed.

Five Lectures on Cotton Insects. In these lectures the history, characteristics, and the best methods of controlling the depredations of the various insects attacking the cotton plant will be discussed.

Five Lectures on the Chemistry of Cotton By-Products. These lectures will deal with the preparation, history and commercial uses of such by-products as cotton seed oil, soap, paper, cellulose, gun cotton, artificial silk and hair, and viscose, which is used in making artificial leather and building material. Samples of the various by-products will be used for illustrative purposes.

Five Lectures on Cotton Machinery. The different forms of plows, cultivators and seeders which may be utilized so as to economize labor and increase the efficiency of soil cultivation will be considered.

Ten Demonstrations in Cotton Grading. In this course the student will have an opportunity to handle and grade ten or more samples of cotton each day just as the operation is performed on the warehouse floor. The score card will be used for recording his results and the instructor will then compare the various samples with standards and explain to the student wherein he has made a mistake. Cotton grading can be successfully taught and made the means of saving several millions of dollars annually to the farmers of Georgia. This feature of the work will be emphasized more strongly than ever in 1913.

Three Lectures on Cotton Marketing. These lectures will include a discussion of the business of receiving, handling and shipping cotton.

The necessity for instruction in cotton industries will be made apparent by the fact that there is a loss in the value of the staple as nature produces it and as placed upon the market of between ten and twenty millions of dollars every year in Georgia. This loss is largely avoidable and will be reduced materially when the handling and grading of cotton is made a part of the knowledge of the farmers in all parts of the State.

COURSE IN CEREAL PRODUCTION.

This course is broader than its name implies, and includes a consideration of seed selection and crop rotation—two matters of vital importance to the welfare of Georgia agriculture. The widespread interest in increasing the yield of corn and growing a greater variety of cereals constitutes the primary reason for offering this course. The department of agronomy has every facility for carrying on the work in the most effective manner. Experiments in corn breeding and cereal production have been conducted in the demonstration field for several years, and furnish an abundance of data of vital importance to the students specializing along these lines. The course is as follows:

Five Lectures on Insects Injurious to Grain. A study of the life history of the more injurious insects will be made with suggestions as to methods of control.

Ten Lectures on Seed Selection. All cereals may be greatly improved both as to yield and quality of grain through seed selection. Experience shows that the seed used in Georgia should be produced at home. The data obtained in the College demonstration field will be used as the basis of instruction.

Ten Lectures on Crop Rotation. Crop rotation is undoubtedly the solution for smaller acreage and higher production per acre, as well as a means of having more than one crop for market. Different systems of rotation will be studied, also the influence of the rotation on general farm work. Special attention will be given to cover crops and their use in the state.

Ten Demonstrations in Cereal Judging. Cereal judging will include a systematic study of varieties by the score card, by actual measurement and scales, as well as germination tests. Students taking the course in cereal production will also elect fertilizers, soils and farm machinery.

COURSE IN LIVE STOCK FARMING.

Georgia farmers have more than fifty million dollars invested in live stock, and in spite of this fact, at least one-tenth of the value of the cotton crop is put into renewing live stock industries which should be developed within the borders of the state. On this account, a ten-day course of instruction for farmers who desire to specialize in live stock farming has been arranged at the College. The course is as follows:

Ten Lectures on Feeds and Feeding. This course will review the courses of feeding stuffs available for the maintenance of live stock, special emphasis being laid on the value of cotton seed and its by-products, and all other materials produced in the state which can be utilized to good advantage in animal nutrition.

Ten Lectures on Breeds and Breeding. In this course the origin, history and development of the various breeds of horses, cattle, sheep and swine adapted to Georgia will be considered.

Ten Lectures on Diseases of Farm Animals. This course includes a review of the methods used to control and eradicate contagious diseases of live stock, including U. S. quarantine regulations concerning the transportation of animals affected with contagious diseases and disease-producing parasites; a consideration of some of the more common diseases and ailments of farm animals, together with means of prevention and methods of treatment.

Five Clinics will be held to demonstrate the method of administering Anti-Hog Cholera Serum and other biological products, and a demonstration of the method of examination of horses for soundness, together with a consideration of the seriousness of various blemishes and unsoundnesses from an economic standpoint.

Five Demonstrations in Stock Judging. For the student electing the live-stock course practical work will be given in the afternoons in scoring farm animals, as well as actual work in show-ring placing. Students taking the course in live stock farming will also elect fertilizers and soils.

SCHEDULE OF RECITATIONS---SHORT COURSES FOR FARMERS.

January 6th to 17th, Inclusive 1913.

	Tuesday, Jan. 7th.	Wednesday, Jan. 8th.	Thursday, Jan. 9th.	Friday, Jan. 10th.	Saturday, Jan. 11th.	Monday, Jan. 13th.	Tuesday, Jan. 14th.	Wednesday, Jan. 15th.	Thursday, Jan. 16th.	Friday, Jan. 17th.
9:00 to 9:55	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers
10:10 to 11:05	Soils	Soils	Soils	Soils	Soils	Soils	Soils	Soils	Soils	Soils
11:05 to 12:00	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain
(1) 12:00 (2) to (3) 12:55 (4)	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection
(1) 12:55 (2) to (3) 1:50 (4)	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation
(1) (2) 3:10 to (3) 5:00 (4)	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging

Registration Day is Monday, January6th, 1913. Bear this date in mind.

WHY FARMERS SHOULD ATTEND THESE COURSES.

The boll weevil will reach the state within a period of three years, and it becomes imperative for the farmers of Georgia to understand the principles of plant and animal breeding, seed selection, more about crop rotation, fertilizers, and how to utilize lint cotton to the best advantage. The Farmers' Short Courses afford these opportunities at a minimum of cost to every white citizen of the state.

Those desiring further information should write for our special circular on the short courses.

COURSE IN HORTICULTURE.

Many persons are intensely interested in securing more definite knowledge concerning orchard management. This is especially true since the wonderful possibilities of apple production in north Georgia have become more generally appreciated. To meet this public demand a specialized course in horticulture has been provided.

Five Lectures on Varieties of Fruit. In this course will be given a discussion of the varieties of apples, pears, peaches, etc., as recommended for commercial culture in the various sections of the state by the Horticultural Society.

Ten Lectures on Orchard Management. These will include discussions of site, location, choice of plants, planting, tillage, cover crops, fertilization, pruning, thinning, frost, spraying, picking, packing and selling.

Five Lectures on Diseases of Fruits. Brown Rot, Apple Scab, Pear Blight, and other diseases incident to the culture of the tree fruits in Georgia will be considered.

Five Lectures on Insects of Fruits. The Codling Moth, Plum Curculio, Peach Borer and other insects incident to the culture of tree fruits in this state will be discussed.

Ten Demonstrations in Spraying and Pruning, consisting of practice in mixing and applying sprays, fighting frost, pruning trees, etc.

Students taking the course in horticulture will also elect fertilizers, soils and farm machinery. The schedule of recitations for these short courses is shown on the opposite page and is self-explanatory.

ANNUAL MEETING OF FARMERS' ORGANIZATIONS.

The Georgia Dairy and Live Stock Association, the State Horticultural Society, and the Georgia Breeders' Association held their annual meetings at the College, January 16 to 18, 1912. A special conference for farmers' wives was held on January

19th. An attempt was made to reach and serve the interests of all classes of citizens engaged in agriculture. The attendance was unusually good, and since those engaged in horticulture or dairying are often interested in both lines of farming, the joint meeting of the several associations presents many advantages to the members and saves both time and money. By meeting at the College the several organizations are afforded an opportunity to study the progress made in agricultural science during the year and to confer with the experts in charge of the several departments. The student body is greatly benefited by the chance afforded for personal contact with practical men who are making a success of the lines of work in which they are engaged. Thus several important purposes are attained through the arrangement of a joint conference of the organizations chiefly concerned in promoting the welfare of Georgia farmers. A determined effort will be made to increase the membership of all the organizations and make the meeting of 1913 the best which has ever been held. Plans have already been made to secure the services of several experts of national reputation to address the several organizations at the next annual meeting.

The advisability of holding such a general conference is shown by the fact that the fertility of our lands is decreasing, the depredation of insect pests and plant diseases becoming greater each year, and the purchase and use of fertilizers more necessary. How shall the farmer obtain the needed information with reference to these matters save through some such clearing house for agricultural information as the State College of Agriculture affords? Education measures the success and progress of a nation. We have neglected agricultural education in America because of our marvelous natural resources. But nature has rebelled, and now we must inaugurate crop rotations and give greater attention to the development of our live stock industries. There is need, therefore, for the dissemination of definite information relating to farm life and work in order that our present agricultural supremacy as well as the prosperity of the farmer may be assured not only for the present but for the future.

The meeting for 1913 will be held from January 21 to 23, as there is more leisure on the farm at this time than at any other season. Every farmer should take a holiday and accord the same privilege to his wife. That such gatherings are beneficial is shown by the fact that 1,000 farmers attend meetings of this kind in some of the states where the agricultural college has been established on a substantial basis. Our farmers will find it quite as beneficial to them to attend these gatherings as those living in other states. Since the cost will only include railroad fare and one dollar a day for board while in Athens, there can be no question as to the advantages which will accrue to the individual who attends these gatherings and learns about the new facts of agriculture which it is necessary for him to know in order to conduct his business along the most profitable lines.

EXTENSION TEACHING.

It is the purpose of the College of Agriculture to aid all educational activities which are being carried forward in the State. The fulfillment of this purpose is one of its greatest obligations to the State and every effort will be made ot further the work of extension teaching. Two great ends are to be subserved by work of this character. First, the systematizing of the educational activities of the state and the raising of these to a higher level of efficiency. Second, the dissemination of useful knowledge which has accumulated in recent years, but is not as generally appreciated as it should be, and which cannot be brought to the attention of adults and those remotely situated from the College save through extension agencies. Recognizing the importance of this character of work, the General Assembly of Georgia during the annual session 1911 appropriated $40,000.00 to the State College of Agriculture to be used for extension teaching.

In accordance with this action of the legislature, the Board of Trustees have reorganized the work of the several departments constituting the College along lines which permit of their carrying on their proper share of extension work in the most efficient manner possible. There is a general extension office with a secretary in charge. Through this office the extension schools, educational trains, farmers' institutes, and miscellaneous meetings are largely organized and directed. Every member of the College staff gives some of his time and effort to extension activities.

The department of agronomy is laying down series of test plats on different type soils of the State to secure data concerning their principal defects, and what forms of fertilization and crop rotation are best adapted to build them up. This department maintains a twenty-acre field for the purpose of carrying on investigations relative to corn and cotton breeding, crop rotations, fertilizers and soil management. This information is invaluable to the people of the state and is distributed in bulletin form through the meetings held by the extension service.

The traveling field representatives of the department of agronomy are also engaged in advising the farmers relative to the improvement of certain strains of corn and cotton which are being developed through seed selection or hybridization.

The department of agricultural chemistry has undertaken a physical survey of several counties and is making analyses of all the type soils found therein. A close coöperation of necessity exists between the departments of agronomy and agricultural chemistry in this work, which is of the most fundamental character, since it means to ascertain the soil deficiencies and determine the methods by which these can be overcome. Several men are employed by this division.

The department of animal husbandry is carrying on work along several lines. First, it is endeavoring to co-operate with farmers in the purchase and dissemination of improved breeds of live stock so that breeding centers may be established in a number of communities. Secondly, an expert is advising dairy farmers as to the best types of barns and silos to erect, and supervising the feeding and management of a number of dairy herds as well. On the College farm more than 150 head of live stock are maintained for the purpose of securing data and information to be distributed in bulletin form and to be used at extension schools and other meetings held throughout the state.

An instructor in poultry husbandry has charge of this special line of work, and is prepared to advise with all interested in this important industry.

The department of horticulture is carrying on extension work in connection with the peach, apple, pecan and trucking industries. Demonstrations on spraying, pruning and orchard heating and other fighting apparatus will be made during the year.

The department of farm mechanics is prepared to assist farmers in the preparation of plans for farm houses, barns and other outbuildings necessary on an up-to-date farm.

The department of cotton industry is distributing seed of the Sunbeam variety which is thought to be resistant to anthrancose, and is engaged in investigating many vital problems associated with the more economic production of cotton in the state.

The department of veterinary medicine has undertaken the manufacture of hog cholera serum. This serum is to be distributed under the direction of the state veterinarian, and not by the College. It is possible through the use of the serum to largely control the destruction wrought by hog cholera. Its importance, therefore, needs no further emphasis. This department is also co-operating in every possible way with those agencies which are endeavoring to eradicate the cattle tick, and to control many diseases which cause serious loss to Georgia farmers.

Some of the most effective work done by the College is through the organization of the Boys' Corn Clubs and Girls' Canning Clubs. Separate departments are maintained for this service, and the interest has grown to such an extent that six special agents with headquarters at Atlanta, Savannah, Augusta, Tifton, Rome, and Columbus, are maintained in the field. Georgia is the only state to provide local agents for the inspiration and redirection of the efforts of her boys and girls. This constitutes one of the most important lines of activity being carried on through the extension work of the College. This is fully shown by the data printed elsewhere.

The various departments enumerated act as a clearing house of agricultural information for Georgia farmers.

During the year 328 meetings were held, and 43,623 people reached, exclusive of those served through correspondence and by distribution of bulletins. Over 73,965 miles of travel were entailed to render this service, which included the organization of nineteen itinerant schools, attended by 4,800 people; 101 farmers' institutes, attended by 19,460 people; boys and girls' clubs in 95 counties, with an aggregate enrollment of 6,320, twelve teachers' institutes, attended by 1,305 teachers; 100 miscellaneous meetings, attended by 23,042 people. In addition over 200 people attended the meetings of the various organizations held at the College.

It is believed that one of the most efficient ways by which the farmers can be served is through the organization and promotion of extension or traveling schools. Nineteen four-day schools were held during the spring of 1912, at the following places: Washington, Eatonton, Louisville, Carrollton, Barnesville, Montezuma, Edison, Bainbridge, Quitman, Valdosta, Douglas, Moultrie, Pitts, Jackson, Fayetteville, Dalton, Ellijay, Hartwell, Demorest. As the schools are still in progress at this writing, the complete record of attendance cannot be given.

The response to this work has been most gratifying, and judging from the expressions of those in attendance, it is the most satisfactory method of reaching farmers that has yet been devised. The demand for meetings has been such as to make it clear that the present appropriation will be insufficient to meet the requirements of the work. These schools are conducted in a thoroughly practical manner. Among the topics discussed are the mixing and application of fertilizers, soils and soil cultivation, tillage and tillage implements, the selection and improvement of seed corn and cotton, diseases of live stock, dairying, fruit and truck problems, spraying and orchard management, the feeding and care of live stock. Demonstrations constitute an important feature of these schools. For instance, a clinic is held at which all the sick animals brought in are treated by a competent veterinarian. There are also spraying, dairy and seed testing demonstrations. Charts, models and other materials are carried along and a number of the lectures are illustrated. In this way the subject matter is presented in a graphic and practical manner, so practical indeed that many farmers who have attended the schools found it feasible to put the suggestions made by the instructors into practice with great benefit. The value of a system of extension teaching of this character can never be accurately estimated, but those who have seen the marvelous improvement in farm practice which has followed in the wake of limited effort in this direction realize fully what a systematic extension bureau may accomplish in stimulating an interest in better methods of farming.

Another feature emphasized by the extension department is the organization of boys' and girls' industrial clubs. The boys are being encouraged to grow corn under the specific rules and regulations laid down by the College, and the girls to organize canning clubs and to take a greater interest in cooking and sewing. Wonderful progress is being made this year. Ninety-five counties have been organized as follows, the figures in brackets indicating the number of girls enrolled in the several counties, and show a total of 5,059 boys and 1,261 girls:

Ben Hill, 40; Brooks, 1; Banks, 82 (83); Bulloch 1; Burke 20; Bibb 31; Baldwin, 67 (28); Bartow, 127 (22); Clarke 40 (50); Crawford, 210; Coffee, 39; Colquitt, 98; Columbia, 84; Catoosa, 20; Chattooga, 67; Cobb, 22; Coweta, 66; Carroll, 40; Clayton 27 (25); Campbell, 53; Cherokee, 9; Douglas, 135; Dooley, 23; DeKalb, 113 (127); Decatur 20; Effingham, 12; Emanuel, 35; Elbert, 27; Early, 95; Franklin, 27; Fayette, 46 (65); Floyd, 102; Grady, 33; Greene, 82; Gwinnett, 14; Gordon, 80; Hancock, 175 (116), colored, 97 (155); Haralson, 67; Hall, 50 (31); Henry, 23; Heard, 21 (8); Hart, 57; Habersham, 74; Houston, 48 colored; Jenkins, 35; Jones, 68; Jackson, 87; Jeff Davis, 17; Jasper, 36; Irwin, 33 (14); Laurens, 228 (154); Liberty, 18; Lowndes, 16; McDuffie, 14; Murray, 34; Milton, 13; Mitchell, 21; Madison, 82; Morgan, 22; Macon, 37 (40); Newton, 1; Oglethorpe, 29; Oconee, 109 (12); Pike, 43; Pulaski, 54 (34); Paulding, 174; Putnam, 98 (31); Polk, 64; Pierce, 126; Rockdale, 20; Randolph, 44; Richmond, 48; Schley, 20; Screven, 93 (57); Sumter, 19; Stewart, 96 (60); Stephens, 54; Tift, 17; Taliaferro, 9; Thomas, 57 (20); Tattnall, 54; Troup, 28; Twiggs, 68 (19); Tolbert, 2; Terrell, 1; Upson, 33; Walton, 75; Wilkinson, 3; Washington, 11; Worth, 4; Wayne, 13; Ware, 37; Wilcox, 104 (128); Walker, 48; Whitfield, 56.

In this work the extension department has had the sympathetic coöperation of the great majority of the county school commissioners, of the Farmers' Union, the State Department of Agriculture, and a number of congressmen. Liberal prizes have been offered by a number of organizations and individuals so that the boys and girls entering these contests will have the privilege of competing for premiums totalling several thousand dollars. Through the organization of these clubs the attention of the boys and girls is being directed to a more thorough appreciation of the possibilities of the soil, the need of using fertilizers and acquiring a consistent knowledge of plant and animal life. In other words, agricultural instruction of a fundamental character is being introduced into the schools of the state and the fact that the boys have often been able to produce 100 bushels of corn per acre where their fathers were contented with 10 to 15, has demonstrated the great cultural and economic value of work of this character.

Speakers will be sent from the College to address farmers' gatherings or to discuss subjects of special interest to a given community. The officers of the College are working in coöperation with the county school commissioners, and lecturers will be sent to teachers' institutes for the purpose of discussing ways and means by which instruction in agriculture in the common schools as provided for by law may be inaugurated. There is no service which can be rendered the people of the state at this time more important than that of fostering the teaching of the underlying principles of agriculture in the public schools. The teachers are not to blame for the apparent neglect of this subject, as there has been no channel through which they might obtain the needed information.

Another feature of extension work which the College is fostering is correspondence with farmers. Thousands of letters are annually answered, giving definite information relative to fertilizers, soils, crops, care and management of live stock,, orchards and gardens. Every farmer in the state is invited to take advantage of the free correspondence course now conducted so extensively by the College, for in this way at the cost of a two-cent stamp any individual may obtain information worth a great deal of money to him with the least possible effort, and without the necessity of purchasing expensive books or taking a long trip to acquire the information. The College stands ready through its staff to assist every organization and every individual entitled to its service free of cost. As the College is now in position to organize a number of extenion schools for teachers, it is believed that substantial progress may be anticipated.

FARMERS' INSTITUTES.

The Board of Trustees of the University organized a farmers' institute system on January 16, 1903. When the Board of Trustees of the Agricultural College was created the management of the farmers' institutes was transferred to it. For several years the institutes were under the charge of Hon. Harvie Jordan, who, however, found the work so onerous and exacting that he decided to withdraw from it on November 1, 1907, when the work was turned over to the direction of Andrew M. Soule.

One hundred and one farmers' institutes were held during the past year at the following places: Ludowici, Georgetown, Coleman, Ellaville, Columbus, Blakely, Eastman, Edison, McRae, Ft. Gaines, Baxley, Lumpkin, Blackshear, Preston, Hahira, Leesburg, Springfield, Camilla, Pembroke, Moultrie, Reidsville, Sylvester, Vidalia, Perry, Nashville, Swainsboro, Vienna, Ashburn, Cordele, Warm Springs, Waynesboro, Newnan, Millen, Jonesboro, Sylvania, Thomaston, Statesboro, Forsyth, Sandersville, Union City, Lexington, Dublin, Alpharetta, Danburg, Cedartown, Buchanan, Grovetown, Carrollton, Madison, Griffin, Jeffersonville, Eton, Barnesville, Adairsville, Gray, Franklin, Jackson, Dallas, Macon, Commerce, Danielsville, Decatur, Elberton, Oglethorpe, Conyers, Hartwell, Covington, Gainesville, Monroe, Clarkesville, Clayton, Valdosta, Hiawassee, Quitman, Blairsville, Milledgeville, Ellijay, Eatonton, Cairo, Jasper, Bainbridge, Dalton, Newton, Ringgold, Woodland, Watkinsville, Reynolds, Buena Vista, Americus, Summerville, Cumming, Hazlehurst, Fayetteville, Jesup, Waycross, Rochelle, Tifton, Mt. Vernon, Sparta, Trimble, Homer.

Institutes were offered to the remaining counties, but for various reasons satisfactory arrangements could not be made for the meeting.

From one to three speakers were sent to the following places where either farmers' meetings or educational rallies were held; if speakers were sent more than once, the number is indicated in brackets:

Rome (2), Macon (5), Savannah, Columbus, O., Monroe (3), Atlanta (20), LaGrange (2), Cartersville (2), Barnesville, Fayetteville, Nashville, Decatur, Temple, Belmont, Comer, Tybee Island, Augusta (3), Clarkesville, Washington, D. C., Bartow, Royston, Nacoochee, Greensboro, Toronto, Can., Washington, Eatonton, Dublin, Watkinsville, Madison (2), Perry, Oglethorpe, Dixie, Lithia Springs, Prince, Statesboro, Danielsville (2), Jefferson, Alpharetta, Cobbtown (2), Tallulah Falls (3), Dallas, Gainesville (2), Newnan, Hartwell (2), Cornelia (2), Blackshear, Canton, Knoxville, Tifton, Dalton, Americus, Sparta, Winterville, Thomaston, Clayton, Hogansville, Trimble, Hebron, Dodge, Columbus, Thomasville, Belhaven, Lumpkin.

Representatives of the College addressed teachers' institutes at the following places during the year: Dawson, Thomasville, Hahira, Atlanta, Dallas, Macon, Bainbridge, Tifton, Zebulon, Calhoun, Cuthbert, Cairo.

The work of the past year was more successful than ever before. An agricultural awakening is sweeping over Georgia, and if the incerase in enthusiasm is as great in 1912 as it was in 1911, a larger sum of money must be appropriated by the state or institutes can not be held in many communities seeking them.

It is a pleasure to acknowledge the cordial coöperation and support extended to the institute work by leading citizens in every section where representatives of the College went; but for their assistance as well as that of the local press the meetings would not have been successfully organized. The list of meetings as enumerated above does not include a large number of points visited by representatives of the College to address, for instance, meetings of the Farmers' Union, and other organizations of agricultural workers.

Representatives will gladly be sent to meetings of any organizations which have the welfare of the farmer at heart, and are endeavoring to disseminate information which will enable him to conduct his operations more successfully. A list of the county institute officers follows:

County	President	Secretary
Appling	A. H. Tillman, Surrency	Ira Leggett, Baxley
Baker	M. A. McRainey, Elmodel	
Baldwin	Geo. Hollinshead, Jr., Milledgeville	
Bartow	Dr. J. P. Bowdoin, Adairsville	Geo. Veach, Adairsville
Berrien	R. D. Seindel, Ray's Mill	W. D. Wills, Adel
Bibb	W. S. Brooks, Macon	
Brooks	W. W. Rast, Pidcock	J. W. Patterson, Pidcock, 1
Bryan	J. B. Bacon, Pembroke, 1	E. Benton, Letford
Bulloch	A. M. Deal, Statesboro	
Burke	N. L. McNorrel, Shell Bluff	Thos. Quinney, Waynesboro
Butts	J. J. Mays, Jackson, 5	S. Kirby Smith, Flovilla
Calhoun	E. L. Smith, Edison	Julian Coleman, Edison
Campbell	Robt. Tatum, Palmetto	J. C. Langston, Fairburn
Carroll	W. L. Nix, Calvin, 2	Y. W. Cunningham, Carrollton, 6
Catoosa	W. E. Bryan, Ringgold	
Chattooga	Arthur Wheeler, Summerville	Lee McWhorter, Summerville
Clay	R. C. McAllister, Ft. Gaines	J. W. Suttlive, Ft. Gaines
Clayton	J. M. Swinney, Forest Park	L. J. Brown, Jonesboro
Colquitt	W. N. Manning, Moultrie	G. W. Newton, Moultrie
Coweta	R. S. Redwine, Newnan	Garland Jones, Newnan
Decatur	J. T. Pittman, Attapulgus	
DeKalb	J. C. Maness, Ingleside	L. S. Bottenfield, Ingleside
Dooly	J. M. Woodward, Vienna	
Early	D. W. James, Blakely	Jos. Freeman, Blakely
Effingham	J. W. Reiser, Clyo, 2	B. W. Cubbedge, Guyton
Elbert	V. H. Jones, Elberton, 4	C. C. Whitesides, Elberton
Emanuel	F. C. Brannon, Swainsboro	S. J. Tyson, Swainsboro
Fayette	A. O. Blalock, Fayetteville	W. M. Speer, Fayetteville
Forsyth	T. R. Williams, Cumming, 1	E. F. Smith, Cumming
Gilmer	B. S. Holden, Ellijay	J. T. Deweese, Ellijay

County	President	Secretary
Grady	J. S. Weathers, Cairo	
Habersham	W. H. Maxwell, Jr., Clarkeville	
Hall	W. E. Deal, Gainesville, 4	E. W. Johnson, Gainesville
Hancock	M. L. Duggan, Sparta	
Haralson	J. S. Jeter, Waco	E. Beall, Buchanan
Hart	A. J. McMullan, Hartwell	T. B. Thornton, Hartwell
Heard	A. H. Daniels, Newnan	
Houston	W. E. Vinson, Dunbar	A. F. Smith, Perry
Jackson	L. G. Hardman, Commerce	J. D. Chandler, Commerce
Jones	F. M. Stewart, Gray	J. E. Morton, Gray
Laurens	J. T. Smith, Dublin	
Liberty	J. H. Parker, Ludowici	W. H. Hughes, Ludowici
Lowndes	O. M. Smith, Valdosta	
Madison	W. S. Sanders, Danielsville	J. N. Griffith, Danielsville
Marion	B. T. Peacock, Buena Vista	G. R. Fleming, Tazewell
Meriwether	J. M. Barnes, Greenville	Robt. Crowder, Greenville
Milton	T. Shirley, Alpharetta	R. L. Bowden, Alpharetta
Mitchell	J. P. McRee, Camilla	E. M. Davis, Camilla
Monroe	Thos. F. Scott, Forsyth	R. S. Fort, Forsyth
Montgomery	W. B. Kent, Mt. Vernon	
Morgan	G. D. Perry, Madison	
Murray	Dr. S. A. Brown, Eton	C. T. Owens, Eton
Newton	Henry Odum, Covington	J. A. Cowan, Covington
Oglethorpe	W. H. Faust, Lexington	W. A. Broach, Point Peter
Pickens	G. M. Bell, Jasper	J. H. Little, Jasper
Pierce	Q. A. Smith, Blackshear, 2	R. D. Howard, Blackshear
Pike	T. O. Gallway, Barnesville	J. R. Leavall, Barnesville
Polk	J. S. King, Cave Spring, R.D.	J. M. Hamrick, Fish, R. D.
Putnam	W. C. Wright, Eatonton	
Quitman	H. M. Kaigler, Georgetown	C. G. Burnett, Hatchers
Rabun	L. M. Chastain, Burton	
Randolph	R. F. Crittenden, Shellman	Oscar Crittenden, Shellman
Rockdale	W. L. Peak, Conyers, 5	L. A. Bowen, Conyers, 4
Schley	B. F. Green, Americus, 2	R. L. Perry, Ellaville, 2
Screven	J. H. Evans, Sylvania	W. C. Howard, Sylvania
Stewart	W. S. Boyett, Lumpkin	W. T. Holliday, Lumpkin
Talbot	H. T. Woodall, Woodland	W. T. Smith, Woodland
Tattnall	W. H. Purcell, Glennville	I. S. Smith, Reidsville
Taylor	C. B. Marshall, Reynolds	W. T. Ricks, Reynolds
Telfair	A. L. Ryles, McRae	W. F. Whatley, Helena
Toombs	John M. Meadows, Vidalia	W. E. Almond, Vidalia
Towns	Jesse M. Rice, Hiawassee	John M. Johnson, Hiawassee
Troup	F. M. Longley, LaGrange	
Turner	A. S. Bussey, Ashburn	J. Lawrence, Ashburn
Twiggs	A. B. Combs, Jeffersonville	S. C. Jones, Jeffersonville, 4
Union	E. S. Crawford, Blairsville	C. E. Ritch, Blairsville
Upson	W. H. Dallas, Thomaston	J. W. Barron, Thomaston
Washington	I. A. Smith, Tennille	C. L. Willoughby, Sandersville
Wayne	J. P. Shedd, Jesup	R. M. Millikin, Jesup
Webster	C. C. Tracy, Preston	J. R. Stapleton, Preston
Whitfield	C. L. Foster, Dalton	
Wilcox	S. B. Reed, Rochelle	J. O. Newburn, Rochelle
Wilkes Lincoln	E. A. Callway, Rayle	J. Luke Burdett, Washington
Worth	J. W. Mathews, Sylvester	J. R. Miller, Sylvester

Those counties interested in securing a meeting for 1912 should correspond with the College at the earliest possible date, so that arrangements may be made for the meetings some time in advance. The appropriation for holding institutes is very small, and as the work has to be done by a few men, it is necessary to prepare a schedule of meetings in advance, so as to save money and conserve the time of the instructors. Correspondence with reference to institutes is invited. If the farmers will cooperate with the College the best work ever done through this arm of the extension service can be accomplished during the year 1912. A printed report containing the principal papers presented before the various meetings held at the College is now being prepared and will be mailed free to any citizen in the State. It contains more than 250 pages, and some excellent papers on agricultural practice in Georgia. Every progressive farmer should have a copy of this report.

For further information, write the

GEORGIA STATE COLLEGE OF AGRICULTURE,
University of Georgia,
Athens, Ga.

MILITARY DEPARTMENT

J. A. ATKINS,

First Lieut. 16th U. S. Infantry, Commandant.

In accordance with the provisions of the Land Grant Act, military exercises are regularly held in this University, upon which the attendance is compulsory by all members of the Freshman, Sophomore and Junior Classes, and the students in the One-Year Course in Agriculture, except when excused by the Surgeon of the Corps of Cadets, or the Chancellor, for physical disability or other cause.

The uniform consists of a coat of standard Charlottesville gray cloth; winter trousers of same material, with stripe one inch wide; and blue cloth cap. The uniform costs about $15.55. For spring use white duck trousers, jeans trousers and blue shirt, leggings, and hat are required, costing about $4.50.

Practical instruction is given three hours each week, covering the following subjects: Infantry Drill Regulations; Field Service Regulations; Manual of Guard Duty; Firing Regulations for Small Arms; Artillery Drill Regulations, partial.

Theoretical Instruction, two hours each week, for commissioned and non-commissioned officers, is given in the portions of the above subjects covered by the practical instruction, and is supplemented by lectures. *One hour each week of theoretical instruction is required of Freshmen.*

BATTTALION OF CADETS.

Roster of Officers and Non-Commissioned Officers.

Cadet Major—W. L. Savell.
Cadet 1st Lieut. and Adjutant—R. S. Farmer.
Cadet 1st Lieut. and Quartermaster—B. L. Brinson.
Cadet Sergeant Major—B. H. Chappell.
Cadet Quartermaster Sergeant—C. C. McCrary.
Cadet Color Sergeants—D. R. Peacock, M. K. Johnson.
Cadet Drum Major—J. W. Lindsay.

Cadet Captains.

Company "A"—B. Michael
Company "B"—E. T. Anderson.
Company "C"—W. K. Meadow.
Company "D"—C. E. Martin.
Company "E"—J. B. Woodcock.
Company "F"—W. P. Nicolson.
Battery—R. E. Lanham.

Cadet First Leutenants.

Company "A"—T. I. Miller.
Company "B"—V. E. Durden.
Company "C"—H. S. Langston.
Company "D"—T. Clarke.
Company "E"—C. T. Estes, B. F. Stovall.
Company "F"—
Battery—

Cadet Second Lieutenants.

Company "A"—E. F. McCarty.
Company "B"—Z. S. Cowan.
Company "C"—J. L. Robinson.
Company "D"—W. Bothwell.
Company "E"—J. G. Liddell.
Company "F"—M. B. Cooper, R. T. Goodwyn.
Battery—E. H. Spalding.

Cadet Sergeants.

Company "A"—R. H. Freeman, M. W. Fitzpatrick, G. York, E. L. Jackson, C. J. Bloch.
Company "B"—W. H. Smith, H. A. Crane, R. T. Stevens, F. D. Phillips, F. Carter.
Company "C"—H. B. Harmon, F. McCoy, J. B. Williams, G. A. Sancken, L. Koplin.
Company "D"—H. G. Howard, S. T. Brewton, C. Padgett, J. L. Cooper, E. Calloway.
Company "E"—C. E. Caverly, J. G. Woodruff, A. F. Awtry, G. L. Williams, B. B. Bivins.
Company "F"—E. I. Ransom, D. Blackmar.
Battery—E. B. Dunlap, H. G. Kelly.

Cadet Corporals.

Company "A"—R. H. Patterson, F. W. Cheney, C. C. Chance, P. Tabor, F. Haselton.
Company "B"—C. Pope, R. D. Short, J. Myers, A. A. Winter, J. I. Davis.
Company "C"—H. H. Whelchel, J. H. Moss, L. Michael, T. R. Ginn, C. B. Foley.
Company "D"—F. Cummings, F. C. Jordan, O. J. Wimberly, J. I. Wood, B. J. Fletcher.
Company "E"—E. C. Westbrook, S. W. Palmer, E. A. Bailey, C. C. Price, A. V. Calloway.
Company "F"—H. M. McGhee, T. J. Collins, L. C. Sheffield, G. T. Howard.
Battery—W. H. Levie, H. Rowland.
Musician—E. Patman.
Lance Corporals—J. W. Popper, Co. "A"; B. C. Moreno, Co. "B"; G. H. Busha, Co. "C"; J. D. Wade, Co. "E"; P. Merry, Co. "F."

THE SCHOOL OF EDUCATION

STAFF OF INSTRUCTION.

DAVID CRENSHAW BARROW, LL.D., Chancellor of the University.

THOMAS JACKSON WOOFTER, A.M., LL.D., Director, and Professor of Education and Philosophy.

JOSEPH SPENCER STEWART, A.M., Professor of Secondary Education; High School Visitor.

(To be filled 1912-13), Associate Professor of Education and Psychology.

(To be filled), Assistant Professor of Education and Rural Problems.

HOWELL BENAJAH PEACOCK, B.S., Tutor in Psychology and Logic.

Other members of the faculty of Franklin College and of the College of Agriculture and the Mechanic Arts.

CREATION OF THE SCHOOL OF EDUCATION.

In June, 1908, the trustees adopted a plan to convert the chair of Philosophy and Education into a School of Education, to merge the chair of Secondary Education, to provide a special building, and to enlarge the staff of instruction.

The matter of a special building was taken up with the Trustees and the General Agent of the Peabody Education Fund, and, pending an adjustment of this Fund, there was a delay in the development of the School of Education. In June, 1911, the adjustment of the Peabody Fund being practically completed and it being fairly certain that an appropriation from the Fund would be made for the erection of a special building for the School of Education, the trustees of the University agreed to provide the annual maintenance to secure the Peabody appropriation. The appropriation has been received, and plans are now going to a contractor for the construction of the building which will be known as George Peabody Hall, in honor of George Peabody who, in 1867, made his great gift to the cause of education in the South.

This building will be ready for occupancy some time in the fall of 1912.

Purpose of the School.

The School of Education is a Teachers' College in the University for the following service:

1. The preparation of teachers for high schools, normal schools, agriculture and other special subjects, special supervisors, and superintendents of schools.

Such teachers and superintendents should have advanced collegiate scholarship and special preparation for their peculiar profession. It is beyond the province of the ordinary normal school to give collegiate instruction, and our State Normal Schools are overburdened with work to provide the elementary teachers. We must evidently look to the college and university for the education of teachers for the higher schools.

2. The study of Education as an instrument of culture, a factor of social control, social betterment, and economic progress.

Education is a social problem of great importance. It takes rank in a curriculum with sociology, political science, etc. As a field for investigation looking to the improvement of the state of man, education is full of promise.

3. The study of such kindred fields as Psychology, Ethics, Philosophy, and Educational Sociology, which will give the proper outlook upon education in both its individual and social aspects.

The School of Education purposes to unify this work in both Franklin College of Arts, and the State College of Agriculture and the Mechanic Arts.

REQUIREMENTS FOR DEGREES.

1. General Degrees.

In accordance with the general requirements for degrees in Franklin College and State College, a student may elect courses in Education counting toward any one of the degrees, Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Agriculture. Other requirements for these degrees limit the number of elective courses, but from three to four courses in Education are possible under general electives for these degrees.

2. Special Degrees.

In the School of Education the degrees Bachelor of Arts in Education and Bachelor of Science in Education will be conferred, the following conditions regulating the same:

1. The entrance requirements for the Bachelor of Arts in Education are the same as those for the general Bachelor of Arts degree. The entrance requirements for the Bachelor of Science in Education are the same as those for the general Bachelor of Science degree, except that two units of any foreign language will satisfy the foreign language requirement for entrance.

2. For graduation a credit of 66 hours must be obtained in accordance with the present general requirements. If German and French are taken instead of Greek for the A.B. degree, the general requirements must be satisfied for the corresponding degree in Education.

3. Minimum requirements in subjects or groups are as follows: English 6 hours; Foreign Languages 6 in each of two; Mathematics 6; Natural Science 6; History 3; Psychology 3; Philosophy, Economics, Social Science 3; Education 9.

If five units of foreign languages have been offered for entrance, then 6 hours in one foreign language will be the minimum for Bachelor of Science in Education.

4. Under the approval of the head of the School of Education, the other hours should be so elected as to include further work in any subject or subjects the student expects to teach and related subjects.

5. If the above requirements are met, together with the regular requirements in Foreign Languages for the Bachelor of Arts degree, the degree Bachelor of Arts in Education will be conferred.

COURSES OF INSTRUCTION

EDUCATION.

1. **History and Principles of Education.**

(*a*) History of Education. The educational doctrines and practices of the great peoples of the world with special study of the modern period, (1) the development of modern educational ideals and systems, and (2) the development of secondary schools.

(*b*) Educational Psychology. An introduction to the science of education.

2. **Educational Sociology.**

A study of education from the standpoint of modern social theory. The function and organization of education in a democracy. *Professor Woofter.*

3. **The Educational Process.**

(*a*) General Principles of Teaching, School Management, School Hygiene.

(*d*) The Teaching of special subjects in the High School and College. *Professor* ———.

4. **School Administration and Supervision.**

(*a*) The development of the different types of schools and systems.

(1) The University and College.
(2) The Secondary School.
(3) The Elementary School.
(*b*) Administration and supervision in the United States.

PHILOSOPHY.

1. **General Psychology.** An introductory course giving a survey of the field of Psychology with special emphasis on its functional and genetic phases. First half year. *Mr. Peacock and Professor* ———.

2. **Logic.** A study of both deductive and inductive logic; practice in the use of the syllogism, inductive methods, and criticisms of fallacies. Second half year. Follows Psychology.

3. **Social Philosophy.** A study of the social mind, individual and social development, and an introduction to modern social theory. First half year. *Professor Woofter.*

4. **Ethics.** A consideration of the historical, theoretical and practical phases of both individual and social ethics. Second half year. *Professor Woofter.*

5. **History of Philosophy.** A course tracing the movements of thought from the early Greek period to the present time.

6. **Advanced Psychology.** Experimental and Genetic Psychology. *Professor* ———.

COURSES FOR GRADUATES AND UNDERGRADUATES.

Other courses will be offered from time to time in the fields of Education, Psychology, and Philosophy leading to the degree Master of Arts under the regulations of the Graduate School of the University.

A special Bulletin will probably be issued later for the School of Education.

THE LAW DEPARTMENT

FACULTY.

DAVID C. BARROW, LL.D., Chancellor of the University.

SYLVANUS MORRIS, A.M., B.L., Dean of the Law Department, Professor of Law.

THOMAS F. GREEN, B.L., Professor of Law.

JOHN H. T. McPHERSON, A.B., Ph.D., Lecturer on Roman Law.

ANDREW J. COBB, A.B., B.L., Lecturer on Procedure and Constitutional Law.

JAMES C. BLOOMFIELD, M.D., Lecturer on Medical Jurisprudence.

The next session of this Department begins September 18th, 1912. The time requisite for graduation is two years. The fees are $75.00 per year, of which $40.00 are due at entrance and $35.00 at the opening of the spring term.

At the opening of the autumn term of the first year, Blackstone will be taken up, and lectures on the Constitution of the United States will begin.

On arrival here, report at the Chancellor's office, or to the Dean, in the Academic Building, on the University campus.

ENTRANCE REQUIREMENTS.

General.—Students in this Department must not be less than eighteen years old, and must be of good moral character.

Junior Class.—The requirements for admission to the junior class include fourteen units. A unit is measured by five weekly periods of forty minutes each for one year in a college or high school subject. This requirement may be met by presentation of a diploma of graduation from a University or College authorized to confer it; by presentation of a certificate from a college or accredited school; by taking the entrance examinations prescribed by the committee on entrance.

Conditioned Students.—Those who can secure credit for *ten* units may be admitted with an entrance condition of *four* units. Conditions must be removed by passing off the necessary units as the result of private study, or by doing additional work offered in the University; but college work thus offered for admission will not be counted toward a degree. The entrance condition must be removed before the student enters the senior class.

VALUE OF SUBJECTS IN UNITS.

	Units.
English: Grammar, Composition, Classics, Rhetoric	3
Mathematics: Algebra, Plane Geometry	2½
History and Civics:	
Ancient History to 814 A. D.	1
English History	1
American History and Civics	1
Modern History	1
Latin	3
A foreign language	2
Elementary Physics	1
Physical Geography	1
Additional year's work in foreign language	1
Botany	1
Chemistry	1
Drawing	1
Physiology	1
Elementary Agriculture	1
Biology	1
Advanced Work in Mathematics, History or English	1

Senior Class.—Applicants for the senior class, in addition to the general requirements and the fourteen units, must have completed one year's course of study in a standard law school, or must have read law under advice and direction in a law office for one year, and must stand satisfactory examination on the work of the junior class.

SENIOR ENTRANCE EXAMINATIONS.

Examinations for students applying to enter the senior class will be held as follows:

Blackstone, Book I	Monday,	September	9th,	1912.
Constitutional Law	Tuesday,	"	10th,	"
Blackstone, Book II	Wednesday,	"	11th,	"
Contracts	Thursday,	"	12th,	"
Torts	Friday,	"	13th,	"
Sales and Bailments	Saturday,	"	14th,	"
Criminal Law	Monday,	"	16th,	"
Elementary Law	Tuesday,	"	17th,	"
Blackstone, Book III	Tuesday,	"	18th,	"

Examinations begin at nine o'clock A. M. each day.

Applicants are particularly urged to bear this in mind.

Transfers.—Students transferring from the Academic Departments must obtain the written permission of the Chancellor and certificates from the proper officer of the University showing that they have been satisfactory students in those departments.

Elective.—Students not applying for the degree may enter the Department upon complying with the general requirements and presenting the fourteen units.

METHOD OF INSTRUCTION.

The best features of the lecture and the recitation are secured by the method of instruction pursued in this Department. Reading is daily assigned in the text-book, the professor comments on the same, and the student is required to recite thereon. By this means each part of the subject is explained to the student, is then read by him, and he is either questioned thereon, or hears others questioned.

COURSE OF STUDY.

The course in this Department is completed in two years, consisting of four terms. The exercises of the University, including this Department, begin on the third Wednesday in September in each year and end at the annual Commencement on the third Wednesday in June.

The autumn term commences with the college year and closes the day before Christmas.

The spring term commences the day following New Year and closes at Commencement.

Two courses of instruction are pursued, to-wit, the Study Course and the Lecture Course, arranged as follows:

Study Course.

The class meets both of the professors of law daily (except Saturday and Sunday), with a previously assigned part of the text-book then being read. The professor delivers lectures explanatory of the text, and questions the members of the class on the text and the lecture of the previous meeting.

First Year.

The autumn term is devoted to the study of Blackstone's Commentaries, Elementary Law, American Law, Constitution of the United States, Constitution of Georgia, Part First of the Code of Georgia, relating to the political organization of the State.

The spring term is devoted to the study of Contracts, Sales, Bailments, Torts, Criminal Law.

Second Year.

The autumn term work covers the subjects of Commercial Law, Agency, Partnership, Common Law Pleading.

The spring term covers the subjects of Real Estate, Conveyancing, Domestic Relations, Equity, Principles and Pleading, Evidence, International Law, Corporations.

In addition to the daily recitation from the regular text-books, the students are required to consult other standard works on the various branches of the law.

Lecture Courses.

The class meets one of the several lecturers of the Department at the noon hour three times a week. The schedule is so arranged that the several courses of lectures do not conflict. The lecturers and their subjects are as follows:

Lectures are delivered during the session to each class by the Hon. Andrew J. Cobb, on Procedure and Constitutional Law.

Lectures on Medical Jurisprudence are delivered twice a week during the autumn term of the first year by Dr. J. C. Bloomfield. The text-book in this course is Ewell's Medical Jurisprudence.

A course of lectures on the Civil (Roman) Law is delivered by J. H. T. McPherson, Ph.D., Professor of History and Political Science, during the second year.

DEGREE.

Students who continue in actual attendance upon the exercises of this Department during the two years, of two terms each, to-wit: the autumn and spring terms, and those who are admitted to the second year of the course, and continue in actual attendance for one year, of two terms, to-wit: the autumn and spring terms, and complete successfully the required course of study, receive the degree of Bachelor of Law of the University of Georgia.

ADMISSION TO THE BAR.

Under the law of the State the graduates of this Department are admitted to the bar, without examination in court, on presentation of the diploma.

Under a rule of the United States Court for the Northern District of Georgia, graduates of this department who have been admitted to the State Bar will be admitted to the District and Circuit Courts of the United States without examination.

HONORS.

Two members of the Law Department are allowed places among the Senior speakers on Commencement Day, and one representative of the Department on University Day. The speakers from the Law Department are chosen by the Faculty of the Law Department for general excellence in all the exercises and branches of study in the Department. Those of the Senior class only are eligible to these places, who have attended the full two years' course in this Department.

MOOT COURTS AND LEGAL EXERCISES.

After the students are sufficiently advanced, moot courts are held in which one of the professors presides, the juries being taken from the students in other departments of the University. The law students are assigned to act as counsel in the cases on trial. In these courts the students are taught the actual practice of law, such as pleading, drawing orders, moving for new trials, advocacy before the court and jury, the use of reports and text-books as authority; in short, all the elements of actual court-house practice.

Throughout the course exercises are given in pleading and drawing deeds, wills and mortgages, and all kinds of legal documents, including commercial paper. It is the purpose of the Department to equip its graduates ready for active practice of the profession.

JEFFERSONIAN LAW DEBATING SOCIETY.

The law students conduct a successful and beneficial society, which meets once a week, and they debate questions of law. All students of the Department are eligible to membership in the society. The society is one of the most useful features of the law course.

EXAMINATIONS.

There are two kinds of examinations—oral and written. Each professor daily examines orally on the prescribed reading. Written examinations are held at the conclusion of each text-book or branch of study. These examinations are made very searching, and the student is given abundant time to write out his answers without assistance, thus impressing upon his mind what he has learned and disclosing accurately and impartially his progress.

LIBRARY.

The law library consists of the Georgia Reports and standard text-books. Under the laws of the State, the Georgia Reports and all other public books are furnished to the Department as soon as published.

The Secretary of the Interior has recently supplied this Department with valuable publications issued by the Government.

The Bancroft-Whitney Co., of San Francisco, have presented to the Department a complete set of their "Practitioner's Series," which has been found of great value to the professors and students.

Through the generosity of the widow of the late Brantley A. Denmark, and mother of the late Thomas N. Denmark, the handsome law libraries of those two loyal sons of the University have been donated to this Department. The libraries contain complete sets of the reports of the Supreme Courts of the State and of the United States, digests and many standard text-books.

The Trustees appropriated, at their session in June, 1910, one thousand dollars, which has been expended to excellent advantage in the purchase of books. The Department now has the nucleus of an excellent library. A librarian is in charge, and access, at regular hours, is afforded to students.

DISCIPLINE.

In matters of discipline, the students of the Law Department are governed by the same rules and regulations prescribed for other students of the University.

TWO YEAR'S COURSE.

Ten years ago the Trustees of the University extended the course in this Department from one to two years. The wisdom, if not the necessity, of that action has never been doubted. The only apprehension was that the prospective students of law would not appreciate the advantages, and lack of sufficient numbers of students would impede the progress of the Department. The result has shown that these apprehensions are groundless. While the authorities of the University have never proposed legislation on this subject, it is most gratifying to know the opinion of the Georgia State Bar Association as expressed in the report of the Committee on Legal Education and Admission to the Bar, submitted and adopted, without amendment, at the meeting of July, 1908. The report, among other things, contains the following: "We believe that this Association should go on record as strongly recommending to young men who aspire to the bar, that they should not only first prepare themselves with a thorough academic education, but should also, when possible, take the law course at one of the excellent colleges of this State, or at one of the well known and thorough law schools of some other State. If the student is not able to take the college course, he ought to spend not less than two years in close study of the law under some good lawyer before he presents his application for admission.

"The course of study of law at all the colleges of this State should be made to extend over two years. It is to be hoped that the two-year course will soon be adopted by all the law schools. The Board of Examiners might well provide such examinations as will require two years' study on the part of the applicant to successfully pass.

"An able judge has said that he could easily tell when a young lawyer argued a law point before him whether he had taken the law course at a college. The advantage given by the college training is apparent.

"We are now insisting on a two years' course by the law student. We have made excellent progress within the few years past. We must depend on the State Board of Examiners and the law schools to aid in further progress."

TUITION AND EXPENSES.

The tuition in the Law Department is $75.00 per annum, divided as follows: $40.00 for the autumn term, to January first; and $35.00 for the spring term, from January first to Commencement. Tuition is payable in advance at the beginning of each term.

No matriculation or library fee is required in this Department. The students in law are entitled to the privileges of all other departments of the University, at Athens, without extra charge.

The expenses of the course are as follows:

Tuition, per annum, $75.00, total	$150.00
Initiation fee, literary society	2.00
Board, per month	$10.00 to 18.00
Washing, fuel and lights, per month	3.00
Stationery for the year	2.00
Text-books can be had for about (each year)	75.00

The incidental expenses of a student are just what he makes them, and the patrons of the University are urged to take into their own hands the control of a matter which no college regulations can reach.

For special catalogue, list of text-books and further information, apply to Sylvanus Morris, Athens, Ga.

THE PHARMACY DEPARTMENT

FACULTY.

DAVID CRENSHAW BARROW, LL.D., Chancellor of the University.

SAMUEL CALDWELL BENEDICT, M.D., Dean, Professor of Materia Medica.

HENRY C. WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry.

JOHN P. CAMPBELL, Ph.D., Professor of Physiology.

WILLIAM D. HOOPER, A.M., Professor of Pharmaceutical Latin.

L. L. HENDREN, Ph.D., Professor of Physics.

HOMER V. BLACK, Ph.D., Associate Professor of Chemistry.

CORNELIUS AUGUSTUS WELLS, M.S., Instructor in Chemistry.

E. T. MILLER, B.S., Instructor in Physics.

ROBERT C. WILSON, Ph.G., Sec'y., Professor of Pharmacy.

ANNOUNCEMENT.

The next session of this Department begins September 18th, 1912. The time required to complete the course is two years of three terms each. The first term begins at the opening of College in September, the third term ending at Commencement in June.

It is the aim of the University in adding the Department of Pharmacy to give to the profession of pharmacy men qualified to hold positions of trust and responsibility. It believes it can best serve this mission by giving educated men. With a view to a thorough comprehension of the course, the following

Entrance Requirements

have been adopted, corresponding to the standards of the American Conference of Pharmaceutical Faculties:

1. The applicant must be of good moral character.

2. He must be not less than 17 years of age, unless he be a graduate of one of the accredited high schools of this or other State.

3. A satisfactory completion of at least one year of work in an accredited high school or its equivalent shall be demanded.

Degrees.

1. Students who continue in actual attendance upon the exercises of this department during the two years of three terms each, and those who have been admitted to the second year of the course and continue in actual attendance for one year, and com-

plete successfully the required course of study, receive the degree of Graduate of Pharmacy (Ph.G.) of the University of Georgia.

2. The regulations of the University do not permit the conferring of more than one academic degree upon the same person at one time. Exceptional and earnest students of the University, candidates for a baccalaureate degree, may, however, on recommendation of the Dean of the Department of Pharmacy, and with the approval of the Faculty, enter the course in Pharmacy and Materia Medica, and, on completion of all the studies included in the curriculum for Graduate in Pharmacy will be awarded this diploma, notwithstanding it may be conferred at the same time as the baccalaureate degree. This permission will be withdrawn immediately, if it shall appear, from the standing of the student in any of his studies, that he cannot satisfactorily undertake the additional work. There is quite a demand and at good salaries for men completing this course and positions are open immediately after graduation. No other profession offers better inducements to young men.

Government.

Students of Pharmacy are governed by the same rules and regulations as are laid down for other students of the University, except that they are not required to drill.

COURSE OF STUDY.

Junior Year.

Satisfactory completion of the following subjects is required:

Chemistry.—Course 2, general principles, Metals, Non Metals. Three hours recitation, one laboratory period of two hours, per week during entire year. Text: Kahlenberg.

Physics.—Course 1, general principles. Two hours recitation and one laboratory period of two hours per week during entire year. Text: Higgins.

Physiology.—Course 1. Two hours recitation per week. Text: The Human Mechanism, Hough and Sedgewick.

Botany and Materia Medica.—Three hours recitation per week during entire year. Text: Bailey's Botany, Culbreath's Materia Medica.

Pharmaceutical Latin.—Two hours recitation per week during Fall term. Text: Sturmer's Pharmaceutical Latin.

Pharmaceutical Mathematics.—Three hours recitation and three laboratory periods of two hours each during first eight weeks of the year. Including study of Weights and Measures, Specific Gravity, Specific Volume, Alligation, etc. Text: Sturmer's Arithmetic of Pharmacy.

General Pharmaceutical Operations.—Three hours recitation and three laboratory periods of two hours each, during the remainder of the Fall term. This course includes the study of Evaporation, Distillation, Sublimation, Percolation, etc. Text: Arny's Pharmacy.

Official Pharmacy.—Three hours recitation and three laboratory periods of two hours each per week. This course includes the study and manufacture of Waters, Syrups, Mucilages, Emulsions, Tinctures, Pills, etc., beginning in January.

Senior Year.

Organic Chemistry.—Course 3. Three hours recitation per week with accompanying laboratory exercises.

Qualitative Analysis.—Course 8. Three laboratory periods two hours each per week. Text: Noyes.'

Quantitative Analysis.—By doubling the time in qualitative analysis and satisfactorily completing this course, students may obtain permission to take up this work. An additional fee of $10.00 will be charged for this course.

Materia Medica.—Three hours recitation per week during entire year. Text: Culbreath's Materia Medica.

Manufacturing and Dispensing Pharmacy, Pharmaceutical Chemistry.—Three hours recitation, three laboratory periods of two hours each per week during entire year. Texts: Arny, Remington, U. S. P., Scoville.

LABORATORIES.

No college of Pharmacy offers better laboratory facilities than are found at the University. We have in operation for students in Pharmacy seven thoroughly equipped Laboratories.

In Botany, Junior and Senior students are separated. In Pharmacy, Junior and Senior men occupy separate rooms. In Chemistry, three laboratories are in operation, one for Junior students, one each for men doing quantitative and qualitative analysis. The Physical laboratory is complete.

EXPENSES.

Junior Year.

Tuition, one-half payable at beginning of the term, balance at the opening of college in January,	$50.00
Literary Society Fee	2.00
Pharmaceutical Laboratory	12.50
Chemical Laboratory	2.50
Materia Medica	1.00
Physics Laboratory	3.00
	$71.00

Senior Year.

Tuition, payable as above	$50.00
Literary Society	1.00
Qualitative Analysis	10.00
Organic Chemistry Laboratory	2.50
Materia Medica	1.00
Pharmaceutical Laboratory	12.50
	$77.00

Other expenses, estimated:

Board and lodging per month, $10.00 to $20.00.

Washing, fuels and lights, per month, $3.00.

Text-books for both years, $15.00 to $20.00.

The individual expenses of a student are just what he makes them; no college regulation can control this matter.

No graduation or diploma fees.

Excellent table board on the coöperative plan can be had in Denmark Hall—the new dining hall—from $8.00 to $9.00 per month; elsewhere from $10.00 per month upwards. Rooms in the dormitories are rent free. The rooms contain bedstead, washstand, table and chairs. The student furnishes all other articles, mattress, pillow, etc., and a monthly fee of $2.50 is charged for light and attendance. On account of the large demand for rooms, application should be made to the Chancellor, as far in advance as possible.

If dormitory rooms cannot be obtained, or are not desired, the next cheapest plan is to rent a furnished room in some residence near the Dining Hall. Many such rooms are for rent on the campus and elsewhere. The prices range from $5.00 per month ($2.50 for each occupant) upwards, including rent of furniture and bedding, attendance and light, but not fuel.

If preferred, the student can obtained board and lodging in private houses, at prices ranging from $12.00 to $20.00 per month.

PRIVILEGES AND ADVANTAGES OFFERED AT THE UNIVERSITY FOR STUDENTS OF PHARMACY.

Self Help.—Students of Pharmacy are eligible to apply for a loan from the Brown Fund to defray their expenses in college. Application for this loan should be made to the Chancellor.

Expense and Cost of Living are lower at the University than at any other college. Room rent in Candler Hall and New College is low, while table board may be had at Denmark Hall, accommodating between two and three hundred students. for $8.50 to $9.00 per month.

Pharmacopoeial Society. This is an organization by and for Pharmacy students only. The society meets every Tuesday night for study and a quiz on subjects of interest to students of Pharmacy. The druggists and physicians of the city and vicinity are invited to meet with the Society, and once each month some prominent physician or druggist is invited to address the Society.

Quiz Class.—This class meets once each week during the term for a quiz on such subjects as are liable to be touched upon by the State Board. Conducted by students. No fees.

Free Scholarships. No scholarships are offered, as yet, in the School of Pharmacy, but in time scholarships such as are offered by the University School of Medicine will be available at the School of Pharmacy.

Library. The Library of the University is open from 9 A. M. to 5 P. M., to students in Pharmacy. This is a well lighted and ventilated building, set apart for reference and research work. Thousands of volumes relating to Literature, Science and Art are at the disposal of students.

Athletics. The School of Pharmacy is represented on both the football and baseball teams of the University. Athletics, while encouraged, are not allowed to conflict with college duties.

Societies. All students of the University are required to join one of the literary societies. These societies are presided over by officers elected from the student body and they afford opportunity for training men in Parliamentary Law, and in facilitating expression.

Other Courses. Pharmacy students may obtain permission to attend other courses without cost, offered in the University, when such work does not conflict with work in Pharmacy.

Reference Books. The School of Pharmacy has Dispensatories and Pharmacopoeias and text books for reference by students.

Y. M. C. A. Plans are on foot for the erection on the campus of a Y. M. C. A. building.

Examinations are held at the end of each term, Christmas, March and June, supplemented by frequent oral and written quizzes.

Hospital Corps. This is optional with Pharmacy students, but it affords opportunity for military training, and a number of the students join the corps. (See military feature).

GENERAL STATEMENT.

Believing that the profession of Pharmacy should be encouraged and that a high educational standard should be maintained in training future pharmacists, the Trustees of the University felt that the State should have a hand in the education of its own pharmacists and have made this department a part of the University system.

The course as offered in this institution has been outlined by a registered pharmacist of this State, who has had ten years practical experience in retail establishments and who is in close touch with the pharmaceutical organizations of the State and with the individual pharmacists. It is felt that the course is very thorough both from a practical and a theoretical standpoint as is evidenced by the fact that all of our graduates have passed the State Board of Pharmacy and many are now proprietors and managers of first-class retail establishments.

It is not the claim of the University that "our graduates are fully prepared to take charge of an establishment on graduation," nor is it the aim to try to establish such conditions. The time that a student spends in pursuing this course is devoted to the study of fundamental principles which he may properly apply when he shall have had the necessary commercial and technical experiences.

For bulletins which describe this course in detail, and for further information, apply to

ROBERT C. WILSON, Ph.G., Secretary.

UNIVERSITY SUMMER SCHOOL

OFFICERS, 1911.

BOARD OF ADMINISTRATION.

DAVID C. BARROW, LL.D., Chancellor of the University, President of the Board.

M. L. BRITTAIN, A.M., State Superintendent of Schools of Georgia.

CHARLES M. SNELLING, A.M., Sc.D., Dean of the University and President of Franklin College, University of Georgia.

ANDREW M. SOULE, B.S.A., Sc.D., President of the State College of Agriculture, University of Georgia.

EUGENE C. BRANSON, A.M., President of the State Normal School.

THOMAS J. WOOFTER, LL.D., Director of the School of Education, University of Georgia.

Superintendent.

THOMAS J. WOOFTER, A.M., LL.D., Director of the School of Education, Professor of Education and Philosophy, University of Georgia.

Registrar.

THOMAS W. REED, A.M., Registrar and Treasurer of the University of Georgia.

Director of Denmark Dining Hall.

CHARLES M. SNELLING, A.M., Dean of the University.

Director of Dormitories.

ROBERT E. PARK, Litt.D., Professor of English Literature.

OFFICERS OF INSTRUCTION.

DAVID C. BARROW, LL.D.,........................Lecturer.
Chancellor University of Georgia.

WILLIS H. BOCOCK, A.M., LL.D., Greek, Pedagogy of Foreign Languages. Dean Graduate School, Milledge Professor of Ancient Languages, University of Georgia.

EUGENE C. BRANSON, A.M.,........................Lecturer.
President State Normal School.

ANNIE T. BREWER,..........Primary Methods, Nature Study.
Diploma Graduate Teachers' College, Columbia University; Critic Teacher, Georgia Normal and Industrial College.

R. E. BROOKS, A.M.,.........School Government, Supervision.
Superintendent City Schools, Dublin, Ga.

M. L. BRITTAIN, A.M., ... Lecturer.
State Superintendent of Schools of Georgia.

PETER F. BROWN, A.M., Grammar School Methods, Literature in the Grades. Head Professor English, State Normal School.

DUNCAN BURNET, A.B., ... Library.
Head Librarian, Peabody Library, University of Georgia.

ELIZABETH CALDWELL, ... Rhetoric, High School English.
Teacher of English, High School, Athens, Georgia.

GEORGE W. CAMP, A.M., ... Psychology, Education.
Master's Diploma Secondary Education, Teachers College, Columbia University. Professor of English and Education, North Georgia Agricultural College.

J. P. CAMPBELL, Ph.D., ... Physiology, Botany, Zoölogy.
Professor of Biology, University of Georgia.

CAROLYN COBB, ... Expression.
Graduate Emerson School of Expression; Teacher of Expression, Lucy Cobb Institute.

MARY E. CRESWELL, ... Pedagogy.
Principal of Muscogee Elementary School, State Normal School.

NORA EDMONSTON, ... Kindergarten.
Training School, Kate Baldwin Free Kindergarten Association, Savannah, Georgia.

MRS. L. A. ELDRED, ... Drawing.
Instructor of Drawing, Birmingham, Ala.

LAWTON B. EVANS, A.M., ... Lecturer, Supervision.
Superintendent of Schools, Richmond County.

JOHN R. FAIN, B.S., ... Agriculture, School Gardening.
Professor of Agronomy, State College of Agriculture, University of Georgia.

H. J. GAERTNER, A.M., ... History.
Professor of History, Georgia Normal and Industrial College.

MARY GOODWIN GRIGGS, ... Director of Drawing.
Professional Staff Teacher, Prang Art Schools.

L. L. HENDREN, Ph.D., ... Physics.
Professor of Physics, University of Georgia.

WILLIAM D. HOOPER, A.M., ... Latin.
Professor of Latin, University of Georgia.

ANNE P. KOLB, B.S., ... Physical Culture.
Physical Culture Diploma, Teachers' College. Teacher of Physical Culture, State Normal School.

W. RUFUS LANIER, A.B., ... Arithmetic.
Superintendent City Schools, Jackson, Ga.

VIRGINIA D. LOTT, ... Basketry, Handicrafts.
Teacher in City Schools, Columbus, Ga.

JOSEPH LUSTRAT, Bach. ès Lett.,....................French.
Professor of Romance Languages, University of Georgia.

J. H. T. McPHERSON, Ph.D.,..............History, Economics.
Professor of History and Economics, University of Georgia.

WIGHTMAN F. MELTON, Ph.D.,...........English Literature.
Bishop George F. Pierce Professor of English Language and Literature, Emory College (Absent 1911).

FREDERICK A. MERRILL, B.S.,.................Geography.
Professor of Geography and Nature Study, State Normal School.

JOHN MORRIS, A.M.,..............................German.
Professor of German and English Language, University of Georgia.

HORTENSE M. ORCUTT,......................Kindergarten.
Instructor in Training School of the Kate Baldwin Free Kindergarten Association, and Principal of Chatham Kindergarten, Savannah, Ga.

ROBERT E. PARK, Litt.,D., English Literature, Literary Criticism.
Professor of English Literature, University of Georgia.

MARVIN M. PARKS, A.M.,........................Lecturer.
President Georgia Normal and Industrial College.

CELESTIA S. PARRISH, Ph.B.,.........Child Study, Pedagogy.
Director Muscogee Elementary School and Professor of Psychology and Pedagogy, State Normal School, Athens, Ga.

R. S. POND, Ph.D.,.................................Algebra.
Adjunct Professor of Mathematics, University of Georgia.

EDNA M. RANDALL,.......................Domestic Science.
Graduate Menomonee School for Home Makers; Teacher-elect of Domestic Science, State Normal School.

STEADMAN V. SANFORD, A.B., English Grammar, Shakspeare.
Junior Professor of English Literature, University of Georgia.

ANDREW M. SOULE, D.Sc.,....Lecturer Agricultural Education.
President State College of Agriculture, University of Georgia.

ROSWELL P. STEPHENS, Ph.D.,...............Mathematics.
Associate Professor of Mathematics, University of Georgia.

JENNIE M. WELLER,.......Public School Music, Voice, Piano.
Teacher of Music and Supervisor of Public School Music, Georgia Normal and Industrial College.

HARRY C. WHITE, Ph.D., F.C.S., LL.D.,...........Chemistry.
Professor of Chemistry and Terrell Professor of Agricultural Chemistry, University of Georgia.

HENRY G. WILLIAMS, A.M., Ped.D.,.....Pedagogical Lecturer.
Dean State Normal College, University of Ohio, Athens.

THOMAS J. WOOFTER, A.M., LL.D.,..............Education.
Director School of Education, Professor of Education and Philosophy, University of Georgia.

GENERAL INFORMATION

HISTORICAL.

The generous contributions of the citizens of Athens, of the General Education Board, of the Trustees of the University of Georgia, and of the Peabody Board of Trust, made possible the first two sessions of the University Summer School, and these sessions demonstrated the urgent need of such a school. The legislature in June, 1904, appropriated $5,000 to the support of the third session thus looking toward establishing the Summer School as a permanent institution. Succeeding legislatures have continued this appropriation. From the standpoint of regular attendance throughout the session, steady application to work, and lasting results accomplished, the Summer School has steadily advanced each session.

PURPOSE.

The purpose of the Summer School is primarily to extend to those who are otherwise engaged during the school year the advantages for instruction which the University can offer, together with the libraries, laboratories, and other facilities of the University. Courses are planned to meet the needs of the following classes:

1. Teachers in elementary and secondary schools, principals, supervisors and teachers of special subjects. The needs of this class have been placed first.
2. Students who desire to prepare for college by making up deficiencies to be able to meet entrance requirements or to remove college conditions.
3. Persons who wish to add to their general culture and attainments, especially those who seek a Master of Arts degree.

The work of the school is therefore manifold. A wide range of work is made needful. The newer fields of public school work, such as nature study, manual training, drawing, domestic science, school gardening, laboratory methods and equipment, are fully presented. Advanced college courses are added as rapidly as there is sufficient demand for them. Requests for these are solicited.

The main purpose of the school has been greatly strengthened by the scheme of continuous course of study with intervening home work under the supervision of the Summer School leading to a Teacher's Diploma. This aims to extend professional preparation to those already in the field of teaching and to do this in the most economic way.

It is not merely a prolonged institute nor narrowly a chatauqua; it aims at steady, substantial work and progress.

EXPENSES.

Railroad Rates. The roads grant a reduced rate about the equivalent of regular fare going and half-fare, plus 50 cents, returning.

Registration and Tuition. This item varies according to the nature of the courses taken. These courses now fall into three groups:

1. Teachers' Diploma or Review Courses; a registration fee of only three dollars which covers tuition and general assembly lectures.

2. College Preparatory or Conditioned Courses, a fee of twenty dollars for one unit course, thirty dollars for two such courses.

These courses continue eight weeks and a student can, as a rule, earn credits in not more than two courses.

3. Graduate Courses, a fee of fifteen dollars a session.

BOARDING AND LODGING.

Of the University dormitories, Candler Hall and Old College will be reserved for women, New College for men. The dormitories are plainly but comfortably furnished and students occupying them need to bring toilet articles, sheets, pillows, spreads, and towels. The charge for rooming in the dormitories will be $2.00 for the session or any part.

There will be a special dormitory for men this year without fail. Professor R. E. Park will be the Director of the dormitories this year, and those who expect to room in the dormitories should write to him.

Meals will be served at Denmark Dining Hall, which is near the dormitories. The charges for meals will be as follows: Full term, $18; Four weeks, $18; Three weeks, $15; Two weeks, $11; One week, $6; Less than one week, $1.00 per day.

Dean C. M. Snelling will be Director of the Dining Hall.

There will be a matron in charge of each of the dormitories for women and a reception room for callers will be provided.

In the vicinity, rooms may be rented for about $1.50 per week per person, and meals obtained at the Dining Hall.

Room may be rented in the dormitory and meals taken at nearby private houses or restaurants.

Board and lodging in private families may be had for from $5 to $6.25 per week for the session, generally two in a room.

Books and Material.—The cost of text-books and material will of course depend upon the courses that the student may elect to pursue. From $3 to $5 should be ample. All necessary books and materials may be obtained here in Athens at moderate prices. Students who possess any books named in the outlines of courses should bring them, also any other books related to courses desired.

Other Expenses.—A few dollars for laundry and incidentals will complete the list. For students occupying dormitories or renting rooms nearby the total necessary expenses while in Athens may be only $27 to $30 for the session of five weeks, for those taking the regular teachers' courses. The additional expenses of those taking Graduate Courses or College Preparatory Courses may be readily estimated from above information.

Importance of Prompt and Regular Attendance. Students may enter at any time, yet the term is so short that for the best results all students should come promptly for the first day and continue throughout the entire session. The first week's work is generally the key to the whole course.

ORGANIZATION OF COURSES.

It is the plan of the Summer School to cover well the fields of (1) common school subjects, (2) high school subjects, (3) elementary pedagogy, and (4) to go as far into college subjects and advanced pedagogy as demands justify.

The schedule is so arranged as to allow the election of courses in any one of these groups or in a combination of groups.

Special attention is called to the opportunities offered by this Summer School in agriculture, nature study, domestic science, drawing, handicrafts, etc.

PLAN OF COURSE OF STUDY.

The following scheme offers arrangements of subjects for a systematic course leading to a diploma. Courses are to be taken in the Summer School for from two to four sessions and these supplemented by intervening home work. This is for the benefit of teachers now in the field who cannot take advantage of the regular course in one of our normal schools or the university, but who wish the opportunity to extend their professional preparation.

The courses are arranged in these groups: I. Education. II. Agriculture. III. English. IV. Geography. V. History. VI. Languages. VII. Manual Training, etc. VIII. Mathematics. IX. Natural Science. X. Philosophy and Social Science. XI. Graduate Courses. XII. College Preparatory and Conditioned Courses.

ABSTRACT OF COURSES.

I. Education.

1. History of Education.
2. Educational Theory.
3. Educational Psychology.
4. Child Study.
5. Practical Pedagogy.
6. Primary Method.
7. Grammar School Method.
8. Literature in the Grades.
9. The Teaching of Natural Science.
10. The Teaching of Languages.
12. Literature in the High School.
13. The Teaching of History.
14. The Teaching of Reading.
15. School Government.
16. School Supervision.
18. Kindergarten.

II. Agriculture.

19. Nature Study.
20. Elementary Agriculture and School Gardening.
21. Advanced Agriculture.

III. English.

24. English Grammar.
25. Rhetoric and Composition.
26. English Literature.
27. Shakespeare.
28. Literary Criticism.
29. Expression.

IV. Geography.

31. Common Sch'l Geography.
32. Physical Geography.
33. Commercial Geography.

V. History.

35. U. S. History.
36. Civics.
37. Ancient History.
38. English History.

VI. Languages.

41. Latin, Elementary.
42. Caesar.
43. (a) Cicero. (b) Virgil.
45. Elementary Greek.
46. Advanced Greek.
48. Beginners' French.
49. Second Year French.
51. Beginners' German.
52. Second Year German.

VII. Manual Training, Etc.

54. Handicrafts.
55. Bench Work.
56. Drawing.
57. Domestic Science.
58. Physical Culture.
59. Music.

VIII. Mathematics.

62. Arithmetic.
63. Algebra I.
64. Algebra II.
65. Geometry I.
66. Geometry II.
67. Plane Trigonometry.

IX. Natural Sciences.

70. Physiology.
71. Biology.
72. Botany.
73. Zoölogy.
74. Physics.
75. Physical Laboratory.
76. Chemistry I.
77. Chemistry II.
78. Chemical Laboratory.

X. Philosophy and Social Science.

81. Psychology.
82. Economics.

XI. Graduate.

101. Education, Educational Biology and Sociology.
102. English, The English Drama.
103. History.
104. Mathematics.
105. Physics.
106. Latin, Latin Drama.
107. Greek, New Testament.

XII. College Preparatory and Conditioned.

Mathematics, 2 courses and 2 half courses.
English, 2 courses.
History, 2 courses.
Physics, 1 course.
Latin, 1 course.

And other courses to meet demands.

REQUIREMENTS FOR THE TEACHER'S DIPLOMA.

1. To be eligible for this diploma, graduation from an accredited high school or an approved college, or the equivalent thereof, is required. Summer School courses must be pursued for at least three summer sessions, and all home work connected with any course must be completed and passed upon to get credit for that course. Twelve such courses will be the minimum number to be completed. Courses should be chosen so that the ones coming last may have the least amount of home work, otherwise another period must be given to home work.

Courses may be elected to give several combinations, according to whether preparation is for primary, grammar, high school, or special work.

2. Required courses and electives are as follows: (1) Psychology or Child Study. (2) One course from Kindergarten, Primary Method, Grammar School Method, High School Pedagogy, Principles of Teaching. (3) History of Education. (4) School Management or School Supervision. (5) Two advanced courses not previously covered in high school or college. (6) Four more such advanced courses or courses from Manual Training or Agriculture Groups and common school reviews.

3. Those desiring credit for any course must take an examination covering the work done in that course during the session of the Summer School and also work assigned for home study in connection with that course. Those not desiring credits need not take examinations.

A Teacher's Diploma with the title, Graduate of the University Summer School, will be conferred by the University upon any one completing the required number of acceptable courses.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE.

1. The requirements of the Graduate School call for the completion of three courses, one designated as the Major, the other two as Minors. The Major course must be pursued for at least three sessions of the Summer School with intervening work. A Minor is half a Major, hence must generally be pursued two sessions.

2. Courses in the following will probably be offered for selection the 1912 session: (1) English, The English Drama. (2) History. (3) Education, Educational Sociology. (4) Greek, New Testament Greek. (5) Latin, Cicero's philosophical works.

3. To be eligible for these courses, the student must have received a Bachelor's degree from an approved college, and must pay the special fee of the Graduate School.

The final examinations are oral and in presence of the University faculty, but written examinations must first be passed.

All graduate courses must first be approved by the Dean of the Graduate School, Dr. W. H. Bocock.

ANNOUNCEMENTS FOR 1912.

The session of 1912 will begin July 1st, and end August 3rd.

The general plan of this session will be similar to that of 1911.

In February 1911 the Faculty of the University decided to open the Graduate School to students in the Summer School, attendance upon three sessions of the Summer School to be accepted as satisfying the time requirements of residence at the University. Work must then be done in absentia to extend the work of the sessions until the regular requirements are met for the Master of Arts degree. Fees have been fixed for the present at $15.00 per session.

Graduate courses begun in 1911 will be continued in 1912, and other courses added. This promises to be one of the most useful features of the Summer School.

A department of Kindergarten was added under the direction of Miss Hortense M. Orcutt and Miss Carol P. Oppenheimer, both of the Training School of the Kate Baldwin Free Kindergarten Association, Savannah, Ga.

This department was added to meet demands and to supplement the work in Primary Methods, and it will be continued the 1912 session.

It has been decided to put on a different basis the work of the Summer School in giving college preparatory courses, and to add courses to remove college conditions, especially those of the Freshman and the Sophomore classes. These courses are to be given separate from the courses for teachers, and will continue eight weeks. In this way more substantial work can be done than could be accomplished by the Summer School in the past.

The special fee for these courses will be $20.00 for a one unit course, or $30.00 for two such courses. Dr. R. S. Pond, of the University faculty, will be the Director of this department.

REGISTER OF STUDENTS, 1911-1912.

GRADUATE STUDENTS.

Allen, Reuben Winfield........................Thomaston.
A.B., University of Georgia, 1911. Advanced undergraduate Chemistry.

Cleveland, Columbus John........................Hartwell.
A.B., North Georgia Agricultural College, 1911. Mathematics, Latin.

Cumming, David Robert........................Griffin.
A.B., University of Georgia, 1910. Mathematics, History.

Dobbs, Willis Franklin........................Athens.
B.S., in Agr., University of Georgia, 1909. Agricultural Chemistry, Agronomy.

Gay, Milton Cleveland........................Athens.
B.Ph., North Georgia Agricultural College, 1908. Agronomy, Cotton Industry, Animal Husbandry.

Marshburn, Joseph Hancock........................Waycross.
A.B., University of Georgia, 1911. English Literature, French, History.

McLemore, Chester Horace........................Mount Vernon.
B.S., in Agr., University of Georgia, 1911. Agronomy, Animal Husbandry, Veterinary Medicine.

Miller, Eralbert Talmadge........................Columbus.
B.S. in C.E., University of Georgia, 1910. Civil Engineering, Physics.

Moore, Henry Walter........................Athens.
B.S., Clemson College, 1907. Agronomy, Veterinary Medicine, Animal Husbandry.

Nichols, Albert Ernest........................Rome.
A.B., Colgate University, 1907. Cotton Industry. Undergraduate Agronomy, undergraduate Botany.

Peacock, Howell Benajah........................Columbus.
B.S., University of Georgia, 1911. Psychology, History, English Literature.

Rast, Loy Edmund........................Pidcock.
B.S., in Agr., University of Georgia, 1911. Agronomy, Cotton Industry, Agricultural Chemistry.

Rayle, Albert Amis, Jr........................Lexington.
A.B., Mercer University, 1908. English Literature, History, Biology. Undergraduate French, undergraduate German.

Sell, Edward Scott....................................Athens.
B.S. in Agr., University of Georgia, 1910. Cotton Industry, Agricultural Chemistry.

Turk, William Telford..................................Homer.
A.B., University of Georgia, 1908. French, Spanish.

STUDENTS PURSUING A COURSE OF GRADUATE STUDY COVERING A TERM OF YEARS, INCLUDING A MINIMUM OF THREE SUMMER SESSIONS.

Anderson, Paul Randolph..............................Forsyth.
A.B., University of Georgia, 1911. History.

Blackman, N. R..Plains.
B.S., University of North Carolina, 1901. History, Education.

Cumming, David Robert..................................Griffin.
A.B., University of Georgia, 1910. Mathematics.

Elrod, Luther F......................................Commerce.
A.B., University of Georgia, 1908. English Literature, History, Education.

Harrison, Emily ....Atlanta.
Radcliffe College, University of Chicago, University of West Virginia, Sorbonne, University of Paris. English Literature, Education.

Lewis, Mamie R......................................Montezuma.
A.B. (graduate study), Salem Female College, 1895. History, Education, English Literature.

Lyndon, Mary D..Athens.
A.B., Wesleyan Female College, 1895. Graduate student, Wesleyan Female College, 1895-1897. English Literature, History, Education.

Newbern, J. L..Broxton.
A.B., Meridian College, 1910. History, English Literature, Education.

Pafford, H. E.....................................Winterville.
A.B., Emory College, 1910. English Literature.

Sewell, W. S.......................................Rockmart.
A.B., Emory College, 1907. English Literature, Education.

Usher, George E....................................Jefferson.
A.B., University of Georgia, 1900. English Literature, Education.

Watkins, A. P......................................Maysville.
A.B., University of Georgia, 1906. English Literature, History, Education.

SENIOR.

Abbott, William Wright, AB	Arts,	Louisville.
Acree, Walter Green, BS Ag.	Agriculture,	Blue Springs.
Anderson, Edward Thomas, AB	Arts,	Danburg.
Belser, Dana Collins, BS.	Science,	Columbus.
Blanchard, Paul Seabrook, AB	Arts,	Columbus.
Brand, Tom Sherman, AB	Arts,	Augusta.
Brannen, Cliff, BS.	Science,	Statesboro.
Brinson, Benjamin Lewis, Jr.,	Agriculture,	Stillmore.
Brown, Lloyd Davidson,	Arts,	Sharon.
Childs, Ross Renfroe,	Agriculture,	Round Oak.
Cchen, Carl Lewis,	Science,	Savannah.
Covington, Leon Hoyt,	Arts,	Cartersville.
DeRenne, Wymberley W.,	Arts Elec.,	Savannah.
Durden, Homer Sylvester,	Science,	Graymont.
Durden, Virgil Edward, AB	Arts,	Graymont.
Estes, Charles Thompson,	Science,	Gainesville.
Etheridge, James Allan, AB	Arts,	Macon.
Farmer, Rhesa Screven, AB	Arts,	Louisville.
Felker, Paul McDaniel, AB	Arts,	Monroe.
Flanigen, Cameron Douglas, Jr. BSCE	Civ. Eng.,	Athens.
Folsom, Marion Bayard, AB	Arts,	McRae.
Gay, Milton Cleveland, BS Ag.	Agriculture,	Athens.
Ginn, Candler Marion,	Science,	Royston.
Goldin, Gullie Benjamin, AB	Arts,	Atlanta.
~~Hill, Walter Barnard,~~	~~Elec. Eng.,~~	~~Athens.~~
Hudson, Paul Lovejoy,	Science Elec.	East Point.
Hunter, Conway Walter, BS	Science,	Atlanta.
Hutcheson, Robert Oliver, BS Ag.	Agriculture,	Atlanta.
Joel, Charles, AB	Arts,	Athens.
Kollock, Josiah Tattnall, BS FE	Forestry,	Atlanta.
Laird, Robert Alexander, BS CE	Civ. Eng.,	Savannah.
Langston, Henry Stanley, BS	Science,	Monroe.
Lanham, Roy Edgar, AB	Arts,	Rome.
Lucas, Walter Malry, BSCE	Civ. Eng.,	Waverly Hall.
Maclean, Charles Mills,	Forestry Elec.,	Savannah.
Mann, William Azmer, AB	Arts,	Milner.
Martin, Charles Edward,	Arts,	Culloden.
Meadow, William King, AB	Arts,	Elberton.
Meyer, Harold Diedrich, AB	Arts,	Augusta.
Michael, Bert,	Arts,	Athens.
Miller, Thomas Irwin,	Arts,	Corinth.
Mullins, William Hamp, AB	Arts,	Penfield.
Newsom, Charles Henderson, AB	Arts,	Eatonton.
Nicolson, William Perrin, Jr., AB	Arts,	Atlanta.

Northen, George Traylor, AB	Arts,	Atlanta.
~~Parrish, Joseph Lamar,~~ 1913	~~Arts, Elec.,~~	~~Atlanta.~~
Peacock, Norman Andrews,	Science,	Barnesville.
Perry, Marvin Banks, AB	Arts,	Machen.
~~Pina, Florentino Severo,~~	~~Civ. Eng. Elec.,~~	~~Matanzas, Cuba.~~
Radford, John Robert, Jr.,	Arts,	Monroe.
Reid, William Arthur, BS	Science,	Atlanta.
Ross, Joseph Hennessy,	Arts,	Brunswick.
~~Rothe, H. H.,~~	~~Agriculture,~~	~~Athens.~~
Russell, Henry Dozier,	Arts,	McDonough.
Saxon, Richard Bowie,	Arts,	Sylvania.
Scott, Thomas Jefferson,	Science Elec.,	Athens.
Sparks, August Octavius Bacon, BS	Science,	Macon.
Stone, Charles Holmes,	Science,	Athens.
Stovall, Benjamin Franklin, BS	Science,	Lavonia.
Stump, Elmer R.,	Arts,	Middleton.
Thompson, Harold,	Elec. Eng.,	Athens.
Tibbetts, John Ralph,	Science,	Athens.
Titshaw, Scott Homer, BS	Science, Hamilton	Hoschton.
Walton, Benton Hair,	Arts,	Columbus.
Ware, James Hamilton,	Science,	Duluth.
West, Andrew Louis,	Science,	Athens.
Whelchel, Robert Fred,	Agriculture,	Murrayville.
~~Woodruff, George Cecil,~~	~~Arts Elec.,~~	~~Columbus.~~
Woofter, Thomas Jackson, Jr.,	Arts,	Athens.
Zahner, Kenyon Benedict, AB	Arts,	Atlanta.

JUNIOR.

Adams, Otis Hill,	Arts,	Covington.
Atkinson, Burwell Alexander,	Arts,	Waverly.
Awtrey, Alonzo Freeman,	Science,	LaGrange.
Ballard, Robert Lee,	Agriculture,	Athens.
Bennett, William Tapley,	Agriculture,	Maxeys.
Bivins, Blake Blackshear,	Arts,	Grovania.
Blackmar, Dana, Jr.,	Science,	Columbus.
Blanchard, George Carswell,	Arts,	Leah.
Bloch, Charles Julian,	Arts,	Macon.
Boswell, Luther Hoyt,	Arts, Elec.,	Penfield.
Boswell, William Hugh,	Arts,	Penfield.
Bothwell, Warren,	Science, Elec.,	Augusta.
Bowen, James Young,	Arts, Elec.,	Crawford.
Boyett, William Jack,	Agriculture,	Morris.
Brewton, Simon Turner,	Science,	Claxton.
Burch, James Butolph,	Arts,	Thomasville.
Calhoun, William Davitte,	Arts Elec.,	Rockmart.

Callaway, Enoch,	Science Elec.	LaGrange.
Campbell, William Edward, Jr.	Science,	Atlanta.
Carter, Frank,	Science,	Atlanta.
Caverly, Charles Edward,	Arts,	Atlanta.
Chappell, Bentley Hart,	Arts,	Columbus.
Clark, Edward Percival,	Science,	Athens.
Conklin, Hughbert William,	Civ. Eng.,	Augusta.
Cooper, James LeRoy,	Science,	Atlanta.
Cowan, Zachary Stuart,	Science,	Atlanta.
Crane, Heman Averill,	Science,	Savannah.
Davidson, Rufus Benjamin,	Arts,	Shady Dale.
Duncan, William Calloway,	Arts Elec.,	Douglasville.
Dunlap, Edgar Brown,	Arts,	Gainesville.
Fitzpatrick, Mark William,	Civ. Eng.,	Jeffersonville.
Floyd, Edward Lee,	Arts,	Chipley.
Fluker, Lamar Jewel,	Arts Elec.,	Union Point.
Freeman, Robert Hill,	Arts,	Newnan.
Garrison, Frank Davis,	Agriculture,	Cornelia.
Gibson, James Owen,	Arts Elec.,	Moultrie.
Goodwyn, Richard Tuggle, Jr.,	Civ. Eng.,	Athens.
Gordon, Ambrose,	Arts Elec.,	Savannah.
Hale, Grady Long,	Arts Elec.,	Social Circle.
Harmon, Howard Banks,	Arts,	Gainesville.
Hogan, Claude Hollis,	Arts,	Carrollton.
Howard, Henry Grady,	Science Elec.,	Lexington.
Howard, Robert Powell,	Agriculture,	Barnesville.
Hurst, William Herbert,	Agriculture,	Social Circle.
Ives, Anson Jesse,	Arts Elec.,	Savannah.
Ingram, Wales Bryan,	Science,	Reynolds.
Jackson, Ernest Lee,	Arts,	Athens.
Johnson, Cornelius H., Jr.,	Science,	Atlanta.
Johnson, James Guyton,	Arts,	Garfield.
Johnson, Miley Kimball,	Arts,	Garfield.
Johnston, David White, Jr.,	Arts,	Atlanta.
Jones, Thomas Fred.,	Civ. Eng.,	Mansfield.
Jordan, Erasmus Glover,	Science,	Monticello.
Kelly, Henry Grady,	Civ. Eng.,	Monticello.
Knight, William Alexander,	Arts Elec.,	Dublin.
Koplin, Louis,	Arts,	Atlanta.
Liddell, Julian Gordon,	Agriculture,	Atlanta.
Lindsay, Jack Watson,	Science,	Savannah.
Marks, Carroll Bernard,	Science Elec.,	Savannah.
Moise, Theodore Sidney, Jr.,	Arts,	Savannah.
Morgenstern, Edward,	Arts,	Atlanta.
McCarty, Edwin Forrest,	Science,	Atlanta.

McCoy, Frank Lee, Jr.,	Arts,	Gainesville.
McCrary, Carl Cecil,	Science,	Royston.
McLarty, Hiram Ray,	Arts,	Douglasville.
Neel, Joseph N., Jr.,	Arts Elec.,	Macon.
Noble, George Henry, Jr.,	Science,	Atlanta.
Owens, William Duncan,	Science Elec.,	Savannah.
Padgett, Grady,	Science,	Reidsville.
Peacock, David Roscoe,	Science,	Eastman.
Pringle, James Copeland,	Arts,	Thomasville.
Ransom, Elmer Inglesby,	Civ. Eng.,	Augusta.
Robinson, Julian Lowe,	Arts,	Atlanta.
Sancken, George Albert,	Science,	Augusta.
Segall, Benjamin Isaac,	Arts,	Collins.
Slade, John Rhodes,	Civ. Eng.,	Columbus.
Small, Artie Harcourt,	Arts,	Macon.
Smith, William Henry,	Arts,	Gainesville.
Stevens, Robert Tate,	Arts,	Elberton.
Strickland, Delcer Solomon,	Science Elec.,	Athens.
Watson, Luther Stephens,	Agriculture,	Loganville.
Wiley, Samuel Harris,	Arts,	Sparta.
Williams, George Livingston,	Arts,	Lawrenceville.
Williams, John Benjamin,	Agriculture,	Fort Valley.
Wilson, Wilbe Radford,	Agriculture,	Athens.
Woodruff, Joseph Grady,	Agriculture,	Winder.
Wright, James Bones, Jr.,	Science,	Augusta.
Yampolsky, Joseph,	Arts,	Atlanta.
York, Gus,	Science,	Quartz.

SOPHOMORE.

Arnett, William Luther,	Arts,	Odessa.
Asbury, Thomas Lyne,	Agriculture,	Crawfordville.
Austin, Won Tin,	Agriculture,	China.
Bailey, Ernest Aubrey,	Arts,	Valdosta.
Baker, Cullen,	Agriculture,	Hartwell.
Barrett, George Barnes,	Arts,	Augusta.
Bazemore, Henry Franklin,	Agriculture,	Sylvania.
Benson, Enoch Blassingame,	Science,	Hartwell.
Bernd, Aaron Blum,	Arts,	Macon.
Booth, John Lamar,	Science,	Athens.
Bowden, David Timon,	Arts Elec.,	McDonough.
Brinson, John Farmer,	Science,	Millen.
Brown, Charles McDonald,	Arts,	Atlanta.
Buchwald, Charles,	Agriculture,	Athens.
Busha, George Henry,	Science,	Toccoa.
Bussey, Leland Stanford,	Arts,	Cuthbert.

Callaway, Albert Victor,	Science,	Atlanta.
Cheney, Frank W.	Civ. Eng.,	Athens.
Chesser, Joseph Riley,	Science Elec.,	Auburn.
Coleman, Edward Thaddeus, Jr.,	Arts,	Graymont.
Conyers, James Bennett,	Arts,	Cartersville.
Cooper, Benjamin Lamar,	Arts,	Douglasville.
Cooper, Freddie Valdi,	Arts,	Sylvania.
Corley, Otis Herman,	Agriculture,	Athens.
Culpepper, Clarence Boozer,	Agriculture,	Luthersville.
Cumming, Forrest,	Arts,	Griffin.
Davis, Jefferson Irwin,	Agriculture,	Quitman.
DeLoache, Earl Tyler,	Science,	Millen.
Dillard, Edward Carleton,	Agriculture,	Arnoldsville.
Durden, Carl Ernest,	Arts Elec.,	Graymont.
English, Louis Caple,	Civ. Eng.,	Warrenton.
Fisher, Sam Boyce,	Civ. Eng.,	Lavonia.
Fletcher, Bob Jake,	Civ. Eng.,	Parrott.
Flournoy, Walker Reynolds,	Arts,	Columbus.
Foley, Charles Burrus,	Science,	Columbus.
Funkenstein, Casper Ira,	Arts,	Athens.
Ginn, Tennie Rucker,	Science,	Royston.
Gray, Claude Luke,	Science,	Appling.
Gunn, Robert Russell,	Arts,	Crawfordville.
Hains, John Thomas,	Arts,	Augusta.
Hammond, Robert Lee,	Arts,	Jackson.
Hardaway, William W.,	Arts,	Thomson.
Harp, Sam Bentley,	Agriculture,	Reynolds.
Haselton, Fred,	Science,	Athens.
Hitchcock, William Edgar,	Arts,	Dallas.
Hodgson, Hugh Leslie,	Science,	Athens.
Holden, Frank Alexander,	Arts,	Crawfordville.
Holder, Goley,	Civ. Eng.,	Augusta.
Howard, George Turner,	Science,	Augusta.
Howard, Julian Cooper,	Science,	Valdosta.
Hunter, George Lewis Cope,	Arch. Eng.,	Savannah.
Hutton, Malcolm Maclean,	Forestry,	Savannah.
Johnson, James Augustus,	Agriculture,	Barwick.
Jordan, Fred Capers,	Arts,	Monticello.
Kieve, Jay Weiss,	Arts,	Albany.
Knight, Robert William,	Science,	Cartersville.
Levie, Walter Hill,	Science,	Montezuma.
Lowry, Doc Elwood,	Arts,	Rome.
Loyd, DeWitt Wilson,	Agriculture,	Newborn.
Lufburrow, Burley Mathew,	Forestry,	Oliver.
Malone, Eddie Clyde,	Science,	Monticello.

Martin, Clarence Elwood,	Agriculture,	Blakely.
Merry, Pierce,	Science,	Augusta.
Michael, Leroy,	Science,	Athens.
Middlebrooks, Chauncey Vance,	Civ. Eng.,	Atlanta.
Minehan, James Richard,	Science,	Brunswick.
Moise, Francis Marion,	Arts,	Atlanta.
Moreno, Benjamin Curry,	Civ. Eng.,	Key West, Fla.
Moss, John Hill,	Science,	Athens.
Myers, Joe,	Arts,	Athens.
McGehee, Henry Martin,	Science,	Talbotton.
McKamy, David Knox,	Science,	Dalton.
McWhorter, Robert Ligon,	Arts,	Athens.
Nanney, William Clyde,	Agriculture,	Brunswick.
Nunez, Mosco Fernando,	Arts,	Swainsboro.
O'Kelley, Edward Barbara,	Agriculture,	Gainesville.
Overton, Macon Caldwell, Jr.,	Science,	Union Point.
Palmer, Sam Warren, Jr.,	Science,	Millen.
Parham, Virgil Swanson,	Science,	Odessadale.
Patman, Everette,	Agriculture,	Athens.
Patterson, Russell Hugo,	Civ. Eng.,	Athens.
Peacock, Erle Ewart,	Arts,	Barnesville.
Phillips, Fitzroy Donald,	Arts Elec.,	Meredith, Fla.
Phillips, George Clarence,	Science,	Thomasville.
Phillips, Joseph Monroe,	Science,	Thomasville.
Phillips, Mathew Perry,	Civ. Eng.,	Jacksonville, Fla.
Pierce, Lewis Edward,	Arts Elec.,	Key West, Fla.
Pitts, Henry McDaniel,	Arts,	Calhoun.
Plaster, Daniel Liddell,	Science,	Atlanta.
Pope, Cadesman,	Civ. Eng.,	Athens.
Pope, Gwinn Nixon,	Science Elec.,	Albany.
Popper, Joseph W.,	Arts,	Macon.
Powell, Joseph Spencer,	Arts,	Sylvania.
Preston, William Gordon,	Arts,	Flovilla.
Price, Otis Grady,	Arts,	Swainsboro.
Proctor, Lannie Groover,	Agriculture,	Brooklet.
Pugh, John D.,	Agric. Elec.,	Hamburg, Ark.
Pund, Edgar Rudolf,	Arts,	Augusta.
Redd, Marion Woodville,	Agriculture,	Columbus.
Riley, Howard Wade,	Arts,	Fort Valley.
Roland, Arthur Gray,	Arts,	Crawford.
Rowland, Hampton,	Agriculture,	Athens.
Schwab, Richard Newelt,	Science,	Atlanta.
Short, Robert Dunham,	Civ. Eng.,	Athens.
Sinclair, John Benning,	Arts,	Jacksonville, Fla.
Slade, William,	Arts,	Columbus.

Stovall, Wallace Oliver,	Science Elec.,	Gainesville.
Summerour, Guy,	Science,	Duluth.
Sweat, Lonnie Ernest,	Arts Elec.,	Patterson.
Symmes, Thomas Davenport,	Civ. Eng.,	Brunswick.
Tabor, Paul,	Agriculture,	Danielsville.
Thomasson, James Toombs,	Science Elec.,	Carrollton.
Tupper, Thomas Egleston,	Science,	Atlanta.
Twitty, Ewart Gladstone,	Elec. Eng.,	Pelham.
Tye, John Lewis, Jr.,	Arts,	Atlanta.
Vaughan, Harry James,	Science Elec.,	Atlanta.
Victor, Victor,	Arts Elec.,	Atlanta.
Von Sprecken, Theodore M.,	Forestry,	Augusta.
Wade, John Donald,	Arts,	Marshallville.
Walker, Carl Bridges,	Arts,	Shellman.
Waters, Audley Alexander,	Science,	Woodcliffe.
Watkins, Rushin,	Arts,	Metcalf.
Westbrook, Edison Collins,	Agriculture,	Gainesville.
Whelchel, Hoyt Henry,	Arts,	Comer.
Williams, J. Mason,	Science,	Madison.
Wimberly, Olin John,	Agriculture,	Macon.
Winecoff, Albert Fleming,	Science,	Atlanta.
Winter, Alphonse Anderson,	Civ. Eng.,	Brunswick.
Wood, Jared Irwin,	Civ. Eng.,	Savannah.

FRESHMAN.

Abbott, Phillips,	Arts,	Louisville.
Abney, Howard Teasley,	Arts,	Athens.
Abrams, David Moses,	Arts,	Macon.
Acree, Lacy S.,	Agriculture,	Resaca.
Adair, Chester Price,	Civ. Eng.,	Gainesville.
Adair, Shields Brownfield,	Agriculture,	Bowman.
Aderhold, William Burton,	Science,	Commerce.
Akerman, Hugh,	Science,	Cartersville.
Allen, Walter G.,	Science,	Sparta.
Barnett, Edward Augustus,	Agriculture,	Washington.
Bassett, Noble Paul,	Arts,	Fort Valley.
Bassett, Raephiel Phillipps,	Arts,	Fort Valley.
Baxter, Andrew Harvey,	Elec. Eng.,	Atlanta.
Birch, George Snyder, Jr.,	Agriculture,	Macon.
Blumenthal, Elliott,	Arts,	Savannah.
Boorstin, Mendle,	Arts,	Monroe.
Branson, Phil,	Agriculture,	Athens.
Breedlove, Richard Edward,	Agriculture,	Campton.
Brown, Harry E.,	Arts,	Dallas.
Broyles, Edwin Nash,	Arts,	Atlanta.

Bunn, W. C., Jr.,	Arts,	Cedartown.
Burford, Ashton,	Civ. Eng.,	Brunswick.
Burns, William Arnold,	Agriculture,	Commerce.
Burrage, Clarence Hill,	Forestry,	Saluda, N. C.
Carlton, Henry Grady,	Agriculture,	Monroe.
Carmichael, Bert Kinard,	Arts,	Jackson.
Carter, Erskine Lee,	Arts,	Lumpkin.
Chandler, Boyd W.,	Arts,	Comer.
Chandler, Farish Carter Tate,	Agriculture,	Commerce.
Chandler, Obie Otis Ashmore,	Agriculture,	Commerce.
Cocke, Egbert Erle,	Science,	Dawson.
Cohen, Edward Myer,	Arts,	Athens.
Coker, Ross W.,	Science,	Rome.
Cooley, John J.,	Forestry,	Savannah.
Cooper, Earnest Brown,	Science,	Thomasville.
Crafts, Arthur Gibbes,	Arts,	Dublin.
Crump, Stephen Alexander, Jr.,	Arts,	Macon.
Curtis, William Neel,	Agriculture,	Mansfield.
Curtis, Walter Wells, Jr.,	Arts,	Columbus.
David, Roy Cornelius,	Arts,	Danielsville.
Davis, Charles Barney,	Agriculture,	Tennille.
Davis, Joe Boyd,	Agriculture,	LaGrange.
Dickson, Gordon Eugene,	Arts,	McDonough.
Dillard, William Reese,	Science,	Washington.
Dobbs, Herbert Clifton,	Arts,	Marietta.
Dozier, Laurens Gilmer,	Arts,	Thomson.
Durden, Walter Bonie,	Arts,	Graymont.
Dyson, Oliver Sneed,	Science,	Washington.
Edwards, John Prior,	Science,	Monroe.
Edwards, Mayne Reid,	Science,	Greenville.
Erwin, Julian,	Science,	Athens.
Felker, Daniel Burke,	Science,	Monroe.
Flanigen, Barrington Lockhart,	Science,	Athens.
Flemister, Harvey Clark,	Arts,	Mansfield.
Florence, Mason,	Arts,	Powder Springs.
Fort, William Ray,	Agriculture,	Morrow.
Francis, Montgomery Lyle,	Science,	Atlanta.
Franklin, Marvin Augustus,	Arts,	Athens.
Freeman, Thomas Cleveland,	Agriculture,	Commerce.
Garner, Charles Gordon,	Agriculture,	Granite Hill.
Gillis, James Lester,	Agriculture,	Soperton.
Gillis, Neil Homer,	Arts,	Covena.
Graham, Paul,	Arts,	McRae.
Griffith, Robert Jenkins,	Science,	Athens.
Griner, Joe Lovett,	Science,	Sylvania.

Groover, Frank Cornelius,	Science,	Cumming.
Gunn, John McKenzie,	Agriculture,	Cuthbert.
Harber, Robert Berner,	Science,	Commerce.
Hardin, Edward John,	Arts,	Greenville, S. C.
Harrell, Joseph E.,	Agriculture,	Gainesville.
Hart, John Collier, Jr.,	Science,	Union Point.
Hastings, William Raymond,	Agriculture,	Atlanta.
Hatcher, Frank Marion,	Science,	Thomson.
Hathorn, Dewitt Donald,	Science,	Atlanta.
Hawes, Richard Ellington,	Arts,	Thomson.
Head, Broadus John,	Agriculture,	Gainesville.
Head, Ralph,	Elec. Eng.,	Tallapoosa.
Headley, Chauncey Green,	Agriculture,	Boston.
Henderson, John Ratia,	Agriculture,	Cartersville.
Hendricks, Terrie Nichols,	Arts,	Nashville.
Hobson, William Grasty,	Agriculture,	Rutherford, N. J.
Holder, John Methvin,	Science,	Camilla.
Hood, Burke,	Arts,	Cuthbert.
Houser, Wesley,	Science,	Fort Valley.
Howard, William Linton,	Arts,	Thomson.
Howell, Clark, Jr.,	Arts,	Atlanta.
Hull, Dudley Cowan,	Science,	Savannah.
Jacobson, Charles Wells,	Arts,	Tennille.
Jenkins, Walter Thomas,	Arts,	Valdosta.
Jones, Guy Rudolph,	Agriculture,	Norcross.
Jones, Percival Connolly,	Agriculture,	Herndon.
Kelley, William Arlington,	Arts,	Commerc.
Kemp, James Frank,	Arts,	Meigs.
Lane, Louis Alexander,	Agriculture,	LaGrange.
Leonard, Russell S.,	Science,	Talbotton.
Lew, Timothy Tingfang,	Arts,	Wenchow, China.
Lewis, William Thompson,	Science,	Columbus.
Link, Ben,	Science,	Athens.
Little, Bird,	Agriculture,	Duluth.
Lord, Herman Griffeth,	Arts,	Commerce.
Lovett, Linwood Bates,	Science,	Sylvania.
Lumpkin, John Gerdine,	Science,	Athens.
Malone, Kirby Smith,	Agriculture,	Monticello.
Maner, Malcolm MacGregor,	Science,	Warrenton.
Martin, Alfred Marshall,	Science,	Augusta.
Martin, Louis Key,	Arts,	Athens.
Martin, Milward Wyatt,	Arts,	Decatur.
Mathews, Harold Henry,	Arts,	Comer.
Maxwell, Thomas Allen,	Arts,	Augusta.
Meek, Robert Gaines,	Arts,	Dallas.

Miller, Frank Oliver,	Civ. Eng.,	Athens.
Mitchell, Hubbard Garland,	Civ. Eng.,	Kirkwood.
Mitchell, Stephens,	Arts,	Atlanta.
Mitchell, William Grant,	Agriculture,	Social Circle.
Moon, Erastus Franklin,	Arts,	Monroe.
Morgan, John Guy,	Agriculture,	Starrsville.
McConnell, Bright,	Agriculture,	Commerce.
McDaniel, Charles Baldwin, Jr.	Arts,	Atlanta.
MacDonnell, Alan Morris,	Science,	Savannah.
McGowan, Henri Charbonnier,	Science,	Augusta.
McLain, William Kenneth,	Arts,	Dawson.
McWhorter, Ellsworth,	Science,	Blackshear.
Nathan, Joseph,	Arts,	Savannah.
Neville, George,	Agriculture,	Rabun Gap.
Olmstead, Ogden John,	Arts,	Willie.
Orr, Robert Craig, Jr.,	Agriculture,	Athens.
Overstreet, Edward K., Jr.,	Arts,	Sylvania.
Owens, Justus Erwin,	Science,	Canon.
Pace, Earle Jackson,	Science,	Dawson.
Pace, Harvey Burgess,	Science,	Pensacola, Fla.
Parrish, Guy A.,	Science,	Adel.
Patton, Thomas Venable,	Civ. Eng.,	LaFayette.
Pedrick, Scott H.,	Agriculture,	Quitman.
Price, James Harold,	Arts,	Jesup.
Price, William Pinckney,	Arts,	Farmington.
Ragsdale, Elmo,	Agriculture,	Cornelia.
Rawson, Clarence Weaver,	Science,	Athens.
Rawson, William Allen,	Arts,	Atlanta.
Ray, James Morgan,	Arts,	Maysville.
Redman, William Morris,	Arts,	Jackson.
Reed, Albon Williams,	Arts,	Athens.
Rey, Ygnacio Domingo,	Civ. Eng.,	Tampa, Fla.
Richards, Harry Brown,	Science,	Calhoun.
Richey, Hubert Guy,	Science,	Commerce.
Rountree, Hugh Jordan,	Science,	McLeod.
Rountree, Ridge,	Agriculture,	Cobbtown.
Rountree, Roy Lee,	Arts,	Summit.
Rubinstein, Douglas H.,	Arts,	Athens.
Sams, Augustine,	Arts,	Decatur.
Sanders, Arthur Newton,	Arts,	Comer.
Seabrook, Edward Marion,	Arts,	Columbus.
Shaw, J. H.,	Science,	Cartersville.
Shirley, Carlos Vivian,	Agriculture,	Alpharetta.
Smith, Benjamin Harper,	Arts,	Hiltonia.
Smith, Charles Richter,	Arts,	Concord.

Sparks, Willis B., Jr.,	Science,	Macon.
Stanley, William Kinnebrew,	Agriculture,	Quitman.
Stewart, Benjamin C.,	Agriculture,	James.
Stewart, Joseph C.,	Agriculture,	Athens.
Strickland, Willis Howard,	Agriculture,	Comer.
Sweet, Charles B.,	Agriculture,	Cornelia.
Thomas, Joseph Harold,	Science,	Baxley.
Thompson, Henry Robert,	Science,	Bethlehem.
Timberlake, Lewis Rumph,	Science,	Marshallville.
Tolbert, Claude,	Arts,	Nicholson.
Tomlinson, Clarence Summers,	Forestry,	Jacksonville, Fla.
Turner, William David,	Arts,	Jesup.
Walker, Julian West,	Arts,	Screven.
Wallace, Earl Clayton,	Science Elec.,	Brunswick.
Wallace, Stephen Bailey,	Arts,	Locust Grove.
Ward, Alonzo Green,	Agriculture,	Villanow.
Ward, Charles Douglas,	Science,	Villanow.
Ward, Frank Crawley ,	Agriculture,	Lumpkin.
Ware, Garnett,	Arts,	Danielsville.
Warren, Early Erastus,	Arts,	Dexter.
Watson, Hermon Hooper,	Arts,	Dallas.
Weatherly, Eugene,	Arts,	Athens.
Webb, William G.,	Arts,	Athens.
West, Henry Haynes,	Science,	Athens.
West, Linton Burnside,	Arts,	Cuthbert.
Wilder, Cleo D.,	Arts,	Americus.
Williams, Dutch Eberhart,	Agriculture,	Athens.
Wilson, James Edgar,	Science,	Thomson.
Wise, Basil Augustus,	Science,	Macon.
Wood, James Raiford,	Arts,	Savannah.
Woodall, James Fletcher,	Agriculture,	Woodland.
Wright, Homer, Jr.,	Agriculture,	Grantville.

SPECIAL STUDENTS.

Atchison, James W.,	Agriculture,	Crawfordville.
Athon, Cincie Davis,	Agriculture,	Machen.
Bedingfield, Charles Bonner,	Science,	Athens.
Blum, Charles William,	Science,	Jacksonville, Fla.
Brown, Joseph Emerson,	Agriculture,	Atlanta.
Campbell, J. Phil,	Agriculture,	Athens.
Chance, Claud C.,	Arts,	Graymont.
Cooper, Marion B.,	Forestry,	Augusta.
Crews, Norman Clyde,	Science,	Athens.
Davis, Jesse Walters,	Agriculture,	Macon.
Denmark, Thomas Irving,	Agriculture,	Valdosta.

Duncan, A. C.,	Arts,	Waycross.
Ellinger, Alfred Mallarme,	Agriculture,	New York, N. Y.
Floyd, Bob Frank,	Arts,	Chipley.
Hattaway, William Berrien,	Agriculture,	Bluffton.
Higginson, William Ledru,	Agriculture,	Virginia, Ill.
Johnson, Owens,	Agriculture,	Atlanta.
King, Joseph Brewster,	Arts,	Atlanta.
Maddox, Robert Cooley,	Science,	Rome.
Martin, Benjamin Edward,	Agriculture,	Athens.
McCaskill, Allen Robert,	Agriculture,	Bainbridge.
Paddock, David Fleming,	Agriculture,	Brooklyn, N. Y.
Patton, Mitchell Albert Nevin,	Agriculture,	Rome.
Roane, James Fant,	Science,	Atlanta.
Roberts, Carl Weldon,	Science,	Ball Ground.
Rogers, Wm. Harvey Sellers,	Science,	Athens.
Roof, Milton Venn,	Agric.,	New York, N. Y.
Savell, W. L.,	Science,	Athens.
Sheffield, Lamar C.,	Arts,	Arlington.
Smith, Andrew Jackson,	Arts,	Athens.
Stone, Bonnell Harold,	Forestry,	Oxford.
Suddath, Robert Oneal,	Agriculture,	Maysville.
Thompson, Harold,	Elec. Eng.,	Athens.
Thompson, Thomas Carl,	Arts,	Gainesville.
Turk, Joseph Lee,	Agriculture,	Homer.
Wingate, Rosien Bunyan,	Arts,	Athens.

ONE-YEAR COURSE IN AGRICULTURE.

Alford, Columbus Augustus	Sylvania.
Barnes, Edwin Davis	Atlanta.
Barrow, Hugh	Bowdon.
Blackwell, James Harmon	Shady Dale.
Blalock, Cicero Herschel	Burton.
Busbee, Hubert H.	Hogansville.
Callender, William E., Jr.	New York.
Cooper, Bennett Duval	Hogansville.
Cutler, John Milton, Jr.	Macon.
Daniel, Ernest Fletcher	Millen.
DeLaPerriere, Arthur L.	Hoschton.
DeLaPerriere, Clarence Homer	Hoschton.
Fears, Grady Frank	Hampton.
Fenn, Lewis E.	Moultrie.
Hine, Henry James, Jr.	Rome.
Holliday, Paul L.	Athens.
Houser, William Weeks	Fort Valley.
Houston, William Fred	Jacksonville, Fla.

Ivey, Vivian McHatton	Lizella.
Jackson, Robert Ralph, Jr.	Atlanta.
Jones, Cecil Seaborn	Dublin.
Little, William Harber	Commerce.
Martin, Charles Jones, Jr.	Flemington.
Moorhead, Orian Alexander	Buckhead.
Morgan, Henry Grady	Buford.
Nash, Davis Acton	Philomath.
Nickerson, Thomas Henry	Athens.
Pirkle, James Princeton	Hoschton.
Rampley, Ottis C.	Carnesville.
Ray, Andrew	Devereaux.
Rogers, Roy	Manassas.
Rushin, Walter Clifford	Macon.
Smith, Lafayette	Clayton.
Strange, Hubert Hollingsworth	Ashland.
Strickland, Joseph Henry	Roswell.
Summers, Young	Sargent.
Surrency, Terrell Ben	Jesup.
Thomas, Joel Edgar	Martin.
Todd, Olin	College Park.
Veach, James Madison	Adairsville.
White, Alton Vestal	Round Oak.
Williams, Larry Emmet	Hull.
Zeigler, John Tatum	Cope, S. C.

SHORT COURSE STUDENTS IN AGRICULTURE.

Alford, Walter Boswell	Macon, R. No. 4.
Autry, C. L.	Plainville.
Bray, Charles T., Jr.	Riceville, R. No. 2.
Brown, John T.	Athens.
Brown, James Maxwell	Canon, R. No. 3.
Chestnut, George Young	Moreland, R. No. 1.
Cogle, Peter Sherman	Jasper, R. No. 3.
Cobb, J. B. L.	Athens.
Collins, Mary O.	Turnerville.
Cook, Grace Browning	Watkinsville, R. D.
Dailey, Warren Candler	Flippen.
Dean, S. S.	Rome.
Dick, Benedict	Spangler.
Dozier, Olin A.	Athens.
Elder, James Thomas	Farmington, R. No. 1.
Everett, John Estes	Bullard, R. No. 1.
Finney, S.	Chicago, Ill. Board of Trade.
Floyd, Dagma L.	Plainville.

Graham, Claud	Point Peter, R. No. 2.
Griffeth, Roy	Danielsville.
Hampton, Hoke	Whitworth.
Henderson, Jno. R.	Cartersville.
Hosea, John	Toccoa, R. No. 3.
Hutchings, Charles Wilmot	Summerville, R. No. 2.
Jennings, George Sam	Plain, R. No. 3.
King, John Middleton	Graniteville, S. C.
Kittle, James	Center.
Lane, Louis Alex.	LaGrange.
Long, Roy David	Carlton, R. No. 2.
Moss, Mrs. J. D.	Athens.
Mundy, Hamilton Bailey	Harlem.
McLean, Ewen	Bladenborough, N. C.
Pearce, Rufus B.	College Station, Texas.
Ray, Arthur	Canon, R. No. 1.
Reaves, Sidney P.	Watkinsville.
Reaves, Rufus K.	Cleveland.
Ries, Fred Cook	Macon, 972 Walnut St.
Robb, C. J.	Camden.
Roper, John Allen	Merriweather.
Smith, Hoke Victor	Waycross, R. No. 2.
Smith, Pratt Adams	Milledgeville, R. No. 2.
Spears, Jas. B.	Madison, R. No. 6.
Storey, Wm. Madison	Summerville, R. No. 3.
Strange, Hubert H.	Ashland, R. No. 2.
Tomlinson, G. H.	Putney.
Trawick, Jesse T.	Linton.
Tucker, William Richard	Summerville, R. No. 3.
Whitner, John C.	Porter Springs.
Williams, Robert L.	Nicholson, R. No. 15.
Young, Emmett McDonald	Moreland, R. No. 1.

SUMMER COTTON GRADING COURSE.

Bell, W. F.	West Point.
Cowart, C. T.	Towns.
Chandler, J. B.	Amboy.
Dennard, R. P.	Pineview.
Dootson, W. R.	Athens.
Gay, M. C.	Athens.
Martin, P. E.	Athens, R. No. 4.
McGee, J. R.	Athens
Peacock, Clifton	Eastman, R. No. 5.
Roberts, S. T.	Vanna.
Shehee, William Edward	Athens.

SENIOR LAW.

Connerat, William Spencer	Savannah.
Crossley, Carl Foster	Bairdstown.
Deadwyler, Joseph Lumpkin	Elberton.
English, James Edward	Waycross.
Fortson, Lovick George, B.S.	Elberton.
McLeod, Wimberley Powell	Abbeville.
Morrow, John Milton	Rutledge.
Murray, John Thomas	Danielsville.
Newman, Henry Alexander, A.B.	Atlanta.
Nix, Hosea Abit, A.B.	Commerce.
Paradise, Fred Victor	Amity.
Phillips, Frank Thomas	St. Marys.
Powell, Thomas Nimmons	Newnan.
Ryan, John Zeigler	Savannah.
Spalding, Eugene Hilliard	Atlanta.
Spradlin, Eugene Franklin	Newnan.
Troutman, Marcellus Lyttleton, A.B.	Athens.
Tuck, Reuben McDaniel	Loganville.
Varela, Joseph Eugene	Tampa, Fla.

ELECTIVE LAW.

Aderhold, Thomas Lumpkin	Gainesville.
Boykin, Shirley Coffee	Carrollton.
Clarke, Edward	West Plains, Mo.
Creekmore, Ross Addison, B.L.	Lexington, Ky.
MacDonell, Alexander Radcliffe, A.B.	Savannah.
Maddox, James	Rome.

JUNIOR LAW.

Allen, Marion Hendricks	Milledgeville
Anderson, Edward Thomas	Danburg.
Belser, Dana Collins	Columbus.
Blanchard, George Carswell	Leah.
Bray, Aubrey Oliver	Norwood.
Camp, Lindley Wayland	Marietta.
Cauble, Mark Waverley	Atlanta.
Cheney, Pat Mell, B.S.	Valdosta.
Cowart, John Martin	Arlington.
Cunningham, William Alexander	Athens.
Deen, DeWitt Talmadge	Waycross.
Dick, Samuel Kenney, B.S.	Atlanta.
Duke, Robert DeWitt	Newborn.
Durden, Carl Earnest	Graymont.
Gray, Joseph Francis, Jr.	Savannah.

Gunnels, Charles William	Bronwood.
Hamilton, Hiles	Rome.
Harris, Earl James	Bethlehem.
Hutchens, Harold Charles	Rome.
Johnston, Richard Hutchins, A.B.	Walden.
Killingsworth, Emmett Clifton	Fort Gaines.
Lumpkin, William Henry	Cartersville.
Lynch, James Montgomery	Florence, S. C.
McKenzie, Horace Cantrell	Atlanta.
Maddox, Arthur Kenney, A.B.	Griffin.
Mann, William Azmer	Milner.
Middlebrooks, Junius Ralph	Mayfield.
Mills, Lewis Archibald, Jr.	Savannah.
Minehan, Ralph Joseph	Brunswick.
Morris, John Brazee	Hartwell.
Newsom, Charles Henderson	Eatonton.
Nicholson, Robert Marion	Watkinsville.
Oliver, John Wesley	Plains.
Perry, Marvin Banks	Machen.
Raiford, Robert Sheldon	Atlanta.
Rogers, Henry Levy	Reidsville.
Russell, David Augustine	Carrollton.
Scarlett, Frank Muir	Brunswick.
Singleton, Gordon Grady	Shellman.
Singleton, Henry Tucker	Edison.
Skelton, Parke	Hartwell.
Strickland, Delcer Solomon	Athens.
Thomas, William Milton, A.B.	Athens.
Tolnas, Olaf Johann, A.B.	Brunswick.
Trimble, Richard Brogdon, B.Ph.	Adairsville.
VanDuzer, Albert Hodges, B.S.	Elberton.
Wallace, Roy William, B.S.	Rutledge.
Whitaker, Eugene Hamilton	Valdosta.

SPECIAL LAW.

Gillen, Frederick Andrew	Maxeys.
Lanier, Weylud Hudson	Metter.

SENIOR PHARMACY.

Arthur, Nelson Stephen	Athens.
Clarke, Thomas	Jacksonville, Fla.
Coile, Turner Frank	Winterville.
Harper, William Cary	Anderson, S. C.
Parkerson, Gus Monroe	Eastman.
Swift, Albert Manning	Metcalf.
Woodcock, John Binion	Register.

JUNIOR PHARMACY.

Austin, Robert	Sargent.
Bush, James R.	Eastman.
Butterly, Robert Emmett	Wrightsville.
Davis, Norwood Craig	Hogansville.
Moore, Joseph Edward	Atlanta.
Norman, Addison Loyd	Norman Park.
Orr, Wilbur Adolphus	Washington.
Parrish, Henry Grady	Brooklet.
Smith, James William	Abbeville.
Thaxton, Carl Newton	Jackson.

THE SUMMER SCHOOL.

Adams, Lessie	Dewy Rose.
Aldred, W. P.	Watkinsville.
Alexander, Leila	Gainesville.
Ammons, A. J.	Morganton.
Anderson, Paul R.	Forsyth.
Atkins, Mrs. J. A.	Athens.
Austin, Manning C.	Hawkinsville.
Avery, Mrs. Ora Hart	Athens.
Ballard, Irene	Madison.
Ballard, R. L.	Athens.
Barnett, Hunter	Athens.
Barrow, Clara E.	Athens.
Barrow, Eleanor	Athens.
Basinger, Mrs. E. B.	Athens.
Baxter, Mrs. Sara Cobb	Athens.
Beatty, Troy, Jr.	Athens.
Belser, D. C.	Columbus.
Benedict, Julia	Athens.
Bidez, E. B.	Rockmart.
Bird, Lucy	Athens.
Black, Ethel L.	Savannah.
Blackman, N. R.	Plains.
Blasingame, Bertha	Augusta.
Bomar, Rebecca	LaFayette.
Booton, Bessie	Marshallville.
Bowen, J. Y.	Crawford.
Bowles, Mary	Fitzgerald.
Boyles, Mary	Greensboro, N. C.
Brannen, C.	Statesboro.
Bright, Clara	McDonough.
Briggs, Sarah B.	Augusta.
Briscoe, Cassie	Athens.

Brooks, Ellen	Crawford.
Burney, Sara Ella	Baxley.
Burton, Hester	Monroe.
Butler, Mayo	Memphis, Tenn.
Buttel, Elsa	Jacksonville, Fla.
Buzhardt, Gertrude	Augusta.
Callaway, Ida	Athens.
Carlton, Marion	Athens.
Champion, Annie	Calhoun.
Chance, C. C.	Graymont.
Cheney, P. M.	Valdosta.
Chesnut, Lois	Porterdale.
Christian, C. L.	Statenville.
Clark, E. P.	Watkinsville.
Clark, Essie May	Watkinsville.
Clarke, Bertha	Mitchell.
Clarke, Ethel	Mitchell.
Cobb, Mrs. Lamar	Athens.
Cobb, Sarah T.	Athens.
Cobb, Stark	Athens.
Cohen, Edward M.	Athens.
Coile, Emma Sue	Winterville.
Colclough, Estelle	Penfield.
Collins, Annie	Bronwood.
Comer, Elizabeth	Macon.
Comer, Mrs. Lula J.	Macon.
Conway, Mrs. H. C.	Athens.
Cook, Rossie Belle	Milledgeville.
Crafts, A. G.	Dublin.
Crump, S. A., Jr.	Macon.
Cumming, D. R.	Griffin.
Cummings, Myrtle	Rockmart.
Daughtry, Abbie	Metter.
Daughtry, Effie	Metter.
Davidson, Ruth	Monticello.
Davis, Annie J.	Meigs.
Davis, E. B.	Stilson.
Davis, G.	Porterdale.
Davis, Minnie	Elko.
Dearing, Katherine	Athens.
Dempsey, Annie	Cedartown.
Dismuke, Lily	Graves Station.
Dobbs, Adalene	Athens.
Dobbs, Annie H.	Marietta.
Dorsey, E. H., Jr.	Athens.

Downs, Nelle	Bowdon.
Dozier, Rene	Athens.
Dunlap, E. B.	Gainesville.
Edwards, C. H.	Athens.
Edmonston, Nora L.	Savannah.
Ellerbe, Alice Claire	Bronwood.
Elrod, L. F.	Commerce.
Evans, E. A.	Jakin.
Farr, Varina	Thomson.
Fillers, Mrs. H. D.	Bonham, Tex.
Flanigen, Monteith	Athens.
Foute, Julia	Cartersville.
Frankum, Caroline	Martin.
Fry, Marion	Dahlonega.
Gaertner, Harold	Milledgeville.
Gaertner, Mrs. Nelle	Milledgeville.
Garrard, Fannie Lou	Washington.
Gautier, Florence	Fitzgerald.
Geiger, Sallie	Monticello.
George, Bennette	Wellston.
Gerdine, Marion	Athens.
Gerdine, Mary	Athens.
Gerdine, Susie	Athens.
Gilder, Janie	Shellman.
Gilder, Senora	Shellman.
Gillis, Carl	Soperton.
Ginn, C. M.	Royston.
Gnann, Eva	Guyton.
Gordon, Cora	Waynesville.
Gowan, C. Lee	Draketown.
Gowan, Mrs. C. Lee	Draketown.
Greene, Lida	Smithville.
Griffith, Gwendolyn	Athens.
Griffith, Lydia	Athens.
Griffith, Roy	Bogart.
Grubbs, Mrs. C.	Sylvester.
Grubbs, Catherine	Sylvester.
Hack, Maud	DeBruce.
Hadas, Rachel	Atlanta.
Hardaway, Mary	
Hardin, Sudie	Leah.
Hardy, Ina	Atlanta.
Harper, Ruth	Statham.
Harrington, Elizabeth	Central, S. C.
Harrington, May	Morven.

Harris, Emmie	Reynolds.
Harris, Kate	Leesburg.
Harrison, Emily	Atlanta.
Hart, Mrs. J. W.	Athens.
Hart, Charlotte	Athens.
Hart, Dorothy	Athens.
Hart, Gilbert	Athens.
Hendrix, Lucile	Newborn.
Herman, Henrietta	Eastman.
Herrington, Mrs. S. M.	Athens.
Hicks, Mrs. G. C.	Macon.
Hicks, Kate	Reynolds.
Hicks, Lillian	Porterdale.
Hill, W. B.	Athens.
Hilsman, Della R.	Madison.
Hogg, Ida Mae	Buena Vista.
Hollingsworth Louise	Athens.
Hooper, Florence Louise	Athens.
Hubert, Marion	Athens.
Hudson, Mary Jim	LaGrange.
Hunt, Minnie	Cedartown.
Hunt, Ora	Cave Spring.
Hutchison, Maggie	Greenwood, S. C.
Hyman, Lillie	Norwood.
Irby, Parazade	Greensboro.
Jackson, Annie Lou	Winder.
Jackson, Maude	Dahlonega.
Jameson, Jessie	Talbotton.
Johnson, Annie Kate	Augusta.
Johnson, C. C.	Graham.
Johnson, J. A.	Barwick.
Johnson, Joan	Columbus.
Jordan, Elizabeth	Grovetown.
Keith, C. A.	St. Augustine, Fla.
Knight, Mary L.	Milltown.
Kolb, Anne P.	Athens.
Lang, Ida	Bladen.
Lang, Lela	Bladen.
Lange, Johanne	Columbus.
Lanier, Marie	Athens.
Laycock, Mrs. H. A.	Ft. Myers, Fla.
Lewis, Mamie	Montezuma.
Lightner, Alice	Ideal.
Lightner, Hattibel	Ideal.
Linney, J. C.	Statenville, N. C.

Linney, Mrs. J. C.	Davisboro.
Long, Maudine	Culverton.
Lott, Virginia	Columbus.
Lowrey, Janie	Preston.
Lyndon, Mary D.	Athens.
Maddox, Rosa	Athens.
Martin, Claude	Adairsville.
Martin, L. K.	Athens.
Matthews, Lucile	Wrens.
Means, Hermie	Yatesville.
Mell, E. B.	Athens.
Michael, Bert	Athens.
Michael, Leroy	Athens.
Michael, Nelle C.	Monroe.
Miller, Nita	Cohutta.
Monk, Ethel	Albany.
Moore, Ellen	White Plains.
Morris, Alice	Fitzgerald.
Moss, John H.	Athens.
Mure, Mrs. R. D.	Athens.
McBride, Ethel	Tallapoosa.
McDonald, Lucy	Porterdale.
McGee, J. P.	Dahlonega.
McGregor, Jessie	Athens.
McHan, Loral	Whitestone.
McKellar, Ella C.	Americus.
McKellar, Mrs. E. C.	Americus.
McKie, Annie Sue	Athens.
McKie, Ruth	Athens.
McMillan, Imogene	Towns.
McWhorter, Mrs. Sara	Eastman.
McWhorter, T. N.	Raymond.
Nash, Willie Joe	Norwood.
Newbern, J. L.	Broxton.
Newman, Rosa	Eastman.
Newsom, C. H.	Eatonton.
Newton, Arline	Machen.
Nolen, Clara	Jackson.
Nunez, M. F.	Swainsboro.
Odom, Kate	Newton.
Odom, Ola	Newton.
Olliff, B. R.	Register.
Owens, J. E.	Canon.
Pafford, H. E.	Winterville.
Page, Cora	Eastman.

Page, Maude	Brooksville, Fla.
Park, E. D.	Athens.
Park, Mrs. R. E.	Athens.
Parker, Mrs. A. S.	Athens.
Perkins, Bertha	Butler.
Phillips, Annie	Columbus.
Phillips, C. L.	Paris, Tenn.
Phinizy, Martha	Athens.
Pickett, Mrs. R. R.	Ty Ty.
Pirkle, Vista	Hoschton.
Poer, Belle	Jesup.
Powell, Louise	Athens.
Price, W. M.	Harrison.
Pullen, Kathleen	Arlington.
Pullen, Lucile	Cave Spring.
Ransom, Emily	Columbus.
Rawls, Ruby	Williamson.
Rawson, C. W.	Athens.
Reaves, Anna	Athens.
Reed, Albon	Athens.
Reutz, Clara	Unadilla.
Reynolds, Pearle	Sylvester.
Rhodes, Melba	Athens.
Rice, G. E.	Flowery Branch.
Roberts, J. B.	Osprey, Fla.
Roberts, Sadie	Tifton.
Ross, Clyde	Sylvester.
Rushing, Ada	Sylvania.
Ryan, J. Z.	Savannah.
Salter, Lillie Belle	Milton, Fla.
Sandiford, Horace	Oxford.
Sanford, Mrs. S. V.	Athens.
Sappington, Florence	Yatesville.
Seale, Ruth	Greensboro.
Seawright, Bessie	Atlanta.
Sell, E. S.	Hoschton.
Sewell, Sara	Cave Spring.
Sewell, W. S.	Rockmart.
Shealy, Cora	Springfield.
Shewmake, Mrs. M. H.	Augusta.
Simmons, Aleph	Quitman.
Smith, Sara L.	Greensboro.
Snelling, Pinckney	Athens.
Snipes, Kate B.	Milledgeville.
Soule, Murray	Athens.

Sparks, Lucile	Menlo.
Spear, Winnie	Sasser.
Stanford, M. E.	Oxford.
Stanley, Mrs. T. P.	Athens.
Stapleton, Essie	Milltown.
Still, C. H.	Walnut Grove.
Strahan, Mrs. C. M.	Athens.
Suddath, R. O.	Athens.
Suttles, Mrs. Ethel	Jonesboro.
Taliaferro, Effie Lee	Columbus.
Taliaferro, Sarah	Columbus.
Tanner, Lantye	Sandersville.
Tanner, S. K.	Sandersville.
Taylor, Alice	Bolingbroke.
Taylor, John G.	Juniper.
Taylor, Kittie	Bolingbroke.
Templeton, Eunice	Blythe.
Terrell, Lillie	Gainesville.
Thigpen, Lillian	Milltown.
Thomasson, Mrs. I.	Athens.
Thorpe, Mary	Savannah.
Thrasher, Hope	McDonough.
Tissereau, Bertie Mae	Macon.
Todd, Lucinda	Alvaton.
Tolson, Addie	Edison.
Trammell, Adrian	White Sulphur Springs.
Tucker, Frances	Macon.
Turk, W. T.	Homer.
Turner, Ruth	Rayle.
Twilley, Maude	Jewell.
Tyler, Muriel	Norman Park.
Tyler, Nellie	Fitzgerald.
Usher, C. E.	Jefferson.
Varela, J. E.	Tampa, Fla.
Von Sprecken, Lizette	Augusta.
Walker, Mamie	Round Oak.
Watkins, Annie Belle	Adrian.
Watkins, Adolphus Parker	Maysville.
Webb, Sara	Athens.
Whatley, Lillie	Columbus.
Whitaker, Mattie	Harlem.
Whittenburg, Mrs. M. D.	Athens.
Whittenberg, Willouise	Athens.
Wicker, Annie Mae	Andersonville.
Williamson, Ina	Columbus.

Williamson, Miss M.	Rome.
Wingate, R. B.	Athens.
Womble, Mrs. G. R.	Moultrie.
Woods, Elizabeth	Athens.
Woods, Mary	Athens.
Woods, Gussie	Athens.
Yates, Lillie Mae	Macon.
York, Gus	Quartz.

HIGH SCHOOL CONFERENCE.

Alfriend, K. T.	Macon.
Allman, J. I.	Toccoa.
Bennett, U. J.	Demorest.
Bernd, Florence	Macon.
Brooks, R. E.	Dublin.
Butler, George P.	Augusta.
Cady, Mary L.	Decatur.
Carreker, H. B.	Warrenton.
Cobb, Carolyn	Athens.
Collum, J. M.	Americus.
Dendy, W. E.	Monroe.
Denmark, Emma	Forsyth.
Downs, W. K.	Madison.
Garrett, W. T.	Griffin.
Godard, G. D.	Moultrie.
Hooper, W. D.	Athens.
Horton, O. R.	Locust Grove.
Jones, W. P.	Rome.
Lanier, W. R.	Jackson.
Matthews, W. E.	Gainesville.
Maupin, C. A.	Columbus.
Mershon, J. A.	Gainesville.
Moon, A. H.	Baxley.
Miller, A. G.	Americus.
Mulloy, W. A.	Statesboro.
McPherson, J. H. T.	Athens.
Newton, Ralph	Brunswick.
Overton, Miss	Forsyth.
Park, R. E.	Athens.
Polhill, T. G.	Hawkinsville.
Pound, Jere M.	Barnesville.
Purks, J. E.	Cedartown.
Purks, J. H.	Greensboro.
Reid, W. D.	Eatonton.
Ritchie, H. B.	Fitzgerald.

Roberts, W. O.	Valdosta.
Rowe, F. F.	Thomaston.
Rumble, Theo.	Elberton.
Sanford, S. V.	Athens.
Seals, T. D.	Valdosta.
Sego, Prin	Augusta.
Smith, C. L.	LaGrange.
Smith, Euler B.	LaGrange.
Smith, Leon P.	LaGrange.
Smith, S. O.	Atlanta.
Stephens, R. P.	Athens.
Stewart, J. S.	Athens.
Treadwell, E. E.	Decatur.
Troutman, M. L.	Athens.
Upshaw, J. C.	Covington.
Ware, N. E.	Thomson.

SUMMARY OF REGISTRATION.

The Graduate School:		
Master of Arts Course	18	
Civil Engineering Course	1	
Master of Science in Agriculture Course	7	
		26
Franklin College:		
Bachelor of Arts Course	184	
Elective Students	20	
Special Students	8	
		212
The State College:		
I. College of Science and Engineering:		
General B. S. Course	122	
B. S. in Civil Engineering Course	30	
B. S. in Electrical Engineering Course	4	
Elective Students	16	
Special Students	9	
		181
II. College of Agriculture:		
B. S. in Agriculture Course	89	
One-Year Course in Agriculture	43	
B. S. in Forestry Course	8	
Special Students	22	
The Cotton Grading School	11	
The Cotton School and Stock Breeders' Short Course	50	
		223
The Law Department		75
The Pharmacy Department		17
The Summer School		361
		1,095
Counted twice		9
Total Registration		1,086

Tables Showing Data Required by the Resolution of the General Assembly, Approved August 13, 1904.

Professions of parents of students in the University, 1911-12, so far as known:

Farmers	173
Physicians	29
Teachers	5
Lawyers	43
Bankers	20
Government Officials (U. S. and State)	20
Real Estate	12
Railroad	9
Insurance	8
Manufacturing	27
Mechanics	8
Cotton Factors	14
Civil Engineers	7
Journalists	2
Salesmen	12
Druggists	7
Merchants	103
Accountants	2
Brokers	5
Contractors	2
Printers	1

Professions or vocations of the alumni of the institution:

Physicians	173
Ministers	208
Engineers	93
Officers U. S. Army and Navy	99
Teachers	205
Farmers	714
Lawyers	1,205
In business	4,027
Total	6,724

SUMMARY OF STUDENTS IN THE UNIVERSITY SYSTEM.

In Franklin College	212	
In the College of Science and Engineering	181	
In the State College of Agriculture	223	
In the Graduate School	26	
In the Law Department	75	
In the Pharmacy Department	17	
In the Summer School	361	
	1095	
Counted twice	9	
		1086
The North Georgia Agricultural College (Dahlonega).		
In College Classes	107	
In Sub-Freshman Classes	109—	216
The School of Technology (Atlanta).		
In College Classes	588	
In Special Textile Classes	20	
In Apprentice Class	81	
In Night School	156	
In Summer School	105—	890
Counted twice	60	
The Girls' Normal and Industrial College (Milledgeville).		
In College Classes	567	
Preparatory and irregular	34	
In Training School	120—	721
The State Normal School (Athens).		
In Regular Diploma Classes	411	
In Review Courses	183	
In Correspondence Courses	37	
In Elementary School	167—	798
The Industrial College for Colored Youths, Savannah).		
In College Department	20	
In Normal Department	221	
In Preparatory School and in Training School	318—	559
The Medical College (Augusta)		126
Total Number Receiving Instruction		4396

SUMMARY.

Students in College Degree Courses	1209
Students in Professional Courses	218
Students in Normal Courses	1199
Students in Short Courses and Special Courses	941
Students in Preparatory Courses	224
Students in Practice Schools (Elementary)	605
Total receiving instruction	4396
Less elementary students	605
	3791

LIST OF ACCREDITED SECONDARY SCHOOLS OF GEORGIA.

Correspondence relating to Accredited Schools should be addressed to Joseph S. Stewart, Professor of Secondary Education, Athens, Ga. For rules governing accrediting of schools see Handbook No. 111, or pages 33-34 of this catalogue.

SENIOR (4-YEAR) HIGH SCHOOLS IN GROUPS I AND II.

Short recitation periods, and in some instances, recent addition of fourth year have placed some of the schools in Group II.

Location and School.	**Principal.**
Albany High School, I,	R. E. Smithers.
Americus High School, I,	J. N. Haddock.
Athens High School, I,	E. B. Mell.
Atlanta:	
Boys' High School, I,	W. F. Dykes.
Girls' High School, I,	Miss Nettie Sargent.
Marist College, I,	Rev. G. S. Rapier.
Peacock-Fleet School,	D. C. Peacock & J. S. Fleet.
Technological High School,	S. C. Culver.
Washington Seminary, II,	L. D. Scott.
Woodberry School, II,	Miss Rosa Woodberry.
Auburn:	
Perry-Rainey Academy, II,	W. C. Carlton.
Augusta:	
Richmond Academy, I,	Geo. P. Butler.
Tubman High School, I,	T. H. Garrett.
Barnesville:	
Gordon Institute, I,	J. M. Pound.
Blackshear:	
Presbyterial Institute, II,	Robt. H. Mann.
Blakely High School, II,	S. J. Smith.
Boston High School, II,	W. E. Nichols.
Bowman:	
Gibson-Mercer Institute, I,	J. P. Cash.
Brunswick:	
Glynn Academy, I,	Ralph Newton.
Buena Vista High School, II,	W. E. Drane.
Carrollton High School, I,	H. B. Adams.
Cave Springs:	
Hearn Academy, I,	J. A. Miller.
Cedartown High School, I,	J. E. Purks.
College Park:	
Ga. Military Academy, I,	J. C. Woodward.
Columbus:	
High School, I,	J. A. Duncan.
Sec. Ind. School, II,	C. A. Maupin.
Concord High School, II,	M. R. Sellers.
Commerce High School, II,	Luther Elrod.
Cordele High School, II,	Jason Scarboro.
Cornelia High School, II,	Chas. M. Neel.
Decatur:	
Agnes Scott Academy, I,	Miss Ella Young.
Donald Fraser Academy, II,	G. S. Candler.

Location and School.	**Principal.**
Demorest:	
Piedmont Academy, I,	J. C. Rogers.
Dublin High School,	N. G. Bartlett.
Eastman High School, II,	N. W. Hurst.
Fitzgerald High School, I,	H. B. Ritchie.
Gainesville:	
Riverside Academy, I,	F. L. McCoy.
Griffin High School, I,	Allan Eakes.
Hepzibah High School, II,	H. W. Sewell.
Jackson High School, II,	W. R. Lanier.
Lavonia High School, II,	H. B. Bible.
Lawrenceville High School, I,	W. P. Martin.
Locust Grove Institute, I,	Claud Gray.
Macon:	
Gresham Academy, I,	K. T. Alfriend.
Lanier High School, I,	K. T. Alfriend.
Marietta High School, I,	C. H. Langford.
McRae:	
South Georgia College, I,	R. J. Strozier.
Milledgeville:	
Georgia Military College, I,	W. E. Reynolds.
McDonough High School, II,	E. D. Gunby.
Menlo High School, II,	W. H. Ransom.
Monroe High School, II,	W. E. Dendy.
Norman Park Institute, I,	W. H. McDaniel.
Ocilla High School, I,	J. R. York.
Rockmart:	
Piedmont Institute, II,	J. R. Turner.
Rome:	
Rome High School, II,	W. P. Jones.
Darlington Academy, I,	J. R. McCain.
Senoia High School, II,	F. M. Bryant.
Savannah:	
Chatham Academy, I,	B. F. Pickett.
Pape School, II,	Miss Nina Pape.
Benedictine College, I,	Rev. F. Bernard.
Sparks Collegiate Institute, I,	A. W. Rees.
Stone Mountain:	
Univ. School for Boys, I,	Sandy Beaver.
Toccoa High School, I,	J. S. Allman.
Thomaston:	
R. E. Lee Institute, I,	F. F. Rowe.
Thomasville High School, II,	J. S. Allen.
Vidalia High School, II,	W. D. Greene.
Warrenton High School, I,	H. B. Carreker.
Washington:	
High School, II,	W. P. Henry.
St. Joseph's Academy, I,	Sister Sacred Heart.
Waycross:	
Bunn-Bell Institute, I,	E. L, Ray.
West Point High School, I,	W. P. Thomas.
Wrens High School, II,	C. C. McCollum.
Winder High School, II,	W. F. Huffaker.
Wrightsville:	
Warthen College, II,	A. F. Ware.
Adel High School,	W. L. Bryan.

MIDDLE (3-YEAR) HIGH SCHOOLS IN GROUP II.

Giving from 11 to 13 units for graduation.

Location and School.	Principal.
Ashburn High School,	C. H. Bishop.
Americus:	
Third District Agri. School,	J. M. Collum.
Bainbridge High School,	J. F. Thomason.
Bartow High School,	F. A. Brinson.
Calhoun High School,	C. C. Wills.
Carrollton:	
Fourth District Agri. School,	J. H. Melson.
Cartersville High School,	H. L. Sewell.
Clarkesville:	
Ninth District Agri. School,	W. H. Maxwell.
Covington High School,	J. C. Upshaw.
Crawfordville:	
Stephens Institute,	H. H. Ezzard.
Cochran High School,	L. H. Browning.
Cuthbert High School,	E. H. Hamby.
Dalton High School,	T. S. Lucas.
Dawson High School,	E. P. Moseley.
Douglasville High School,	A. H. Stephens.
Douglas:	
Eleventh Dist. Agri. School,	C. W. Davis.
Eatonton High School,	W. D. Reid.
Elberton High School,	P. B. Winn.
Fairburn High School.	C. O. Stubbs.
Forsyth High School,	L. W. Moseley.
Ft. Valley:	
Grady Institute,	L. O. Freeman.
Gainesville High School,	J. A. Mershon.
Granite Hill:	
Tenth District Agri. School,	Geo. White, Jr.
Greensboro High School,	J. H. Purks.
Hartwell High School,	W. C. Ariail.
Hawkinsville High School,	T. H. Polhill.
Jefferson:	
Martin Institute,	G. E. Usher.
LaGrange High School,	J. E. Ricketson.
Lumpkin High School,	G. M. Sparks.
Lyons High School,	R. M. Monts.
Madison:	
High School,	W. T. Henson.
Eighth District Agri. School,	J. H. Breedlove.
Mansfield High School,	J. T. Brinkley.
Monroe:	
Fifth District Agri. School,	J. H. Walker.
Montezuma High School,	J. M. Richardson.
Monticello High School,	E. N. Reynolds.
Moultrie High School,	G. D. Godard.
Nashville High School,	J. F. Wood.
Newnan High School,	E. A. Armistead.
Newborn High School,	H. L. Worsham.
Pelham High School,	T. H. Wilkinson.
Perry High School,	J. W. Bloodworth.

Location and School.	Principal.
Powder Springs:	
Seventh Dist. Agri. School,	H. R. Hunt.
Quitman High School,	C. E. Betts.
Reynolds:	
Coleman Institute,	A. A. Strock.
Rome:	
The Berry School,	R. H. Adams.
Sandersville High School,	W. T. Garrett.
Shellman High School,	S. C. Haddock.
Social Circle High School,	H. B. Robertson.
Sparta High School,	Albert Bell.
Statesboro:	
High School,	J. E. Wright.
First District Agri. School,	E. C. J. Dickens.
Swainsboro High School,	C. J. Sawyer.
Sylvania High School,	J. C. Langston.
Talbotton High School,	W. M. Parker.
Tallapoosa High School,	A. L. Brewer.
Tennille High School,	W. S. Sewell.
Thomson High School,	N. E. Ware.
Tifton:	
High School,	W. A. Mulloy.
Second Dist. Agri. School,	S. L. Lewis.
Valdosta High School,	W. O. Roberts.
Vienna High School,	C. G. Power.
Watkinsville High School,	W. R. Aldred.
Waycross High School,	E. A. Pound.
Waynesboro High School,	M. C. Allen.

THREE YEAR SCHOOLS WITH 9 TO 11 UNITS CONSTITUTING GROUP III.*

Giving from 9 to 11 units for graduation.

Location and School.	Principal.
Buford High School,	W. N. Nunn.
Brooklet High School,	J. L. Newbern.
Bremen High School,	L. E. Beris.
Barnesville:	
Sixth District Agri. School,	Lawrence Duffey.
Cairo High School,	G. C. Bowden.
Claxton High School,	J. E. Cheatham.
Chipley High School,	O. H. Hixon.
Comer High School,	P. M. Davis.
Dallas High School,	J. T. Lowe.
Fort Gaines High School,	J. B. Jackson.
Harlem High School,	R. D. Eadie.
Hogansville High School,	J. L. Underwood.
Jesup High School,	C. R. McWhorter.
Lafayette High School,	W. E. Mitchell.
Lithonia High School,	W. M. Rainey.
Louisville High School,	J. W. Farmer.

*Schools offering less than 11 units next year which have been in this Group one year will be discontinued next year.

Location and School.	Principal.
Maysville High School,	Lamar Ferguson.
Metter High School,	B. L. Jordan.
Palmetto High School,	R. E. Griner.
Plains High School,	N. R. Blackman.
Marshallville High School,	D. H. Perryman.
Royston High School,	F. D. Seckinger.
Summit High School,	E. L. Tappan.
Wadley High School,	A. P. Segars.
Woodbury High School,	W. P. Lumsford.
Winterville High School,	J. E. Pafford.
Richmond High School,	A. N. Swain.

THE UNIVERSITY OF GEORGIA

The complete organization of the University of Georgia is as follows:

THE UNIVERSITY AT ATHENS.

I. FRANKLIN COLLEGE (The College of Arts).
Established in 1801, offering the Degree of Bachelor of Arts, and including: (1) General Courses in the Liberal Arts; (2) Special Courses.

II. THE STATE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS. (The College of Science).
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For a catalogue of the several institutions mentioned, address the Presidents, whose names are given above; for the catalogue of the entire University organization, address,

DAVID C. BARROW, LL.D., Chancellor,
Athens, Ga.

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CORRIGENDA.

Page 9, add:

ENOCH H. CALLAWAY, Augusta,
President of the Board of Directors of the Medical College.
Ex-officio.

Page 119. In the curriculum for the degree of Bachelor of Science in Agriculture, the following changes should be made:

Sophomore:

For Mathematics, read Physics 3, or 5.

Junior.

In all courses, except Chemistry, for Physics 3 or 5, read: Entomology and Bacteriology.

And add the following **Note:** Candidates for the degree who do not offer two units of foreign language will take the language work in the Freshman and Sophomore years and may take Mathematics and Physics in the Junior and Senior years respectively. Students already in course in the College of Agriculture may graduate under the old or the new curriculum.

Bulletin of the University of Georgia

MARCH, 1912

University
Summer School

Athens Georgia

1785

July 1st, to August 3rd

1912

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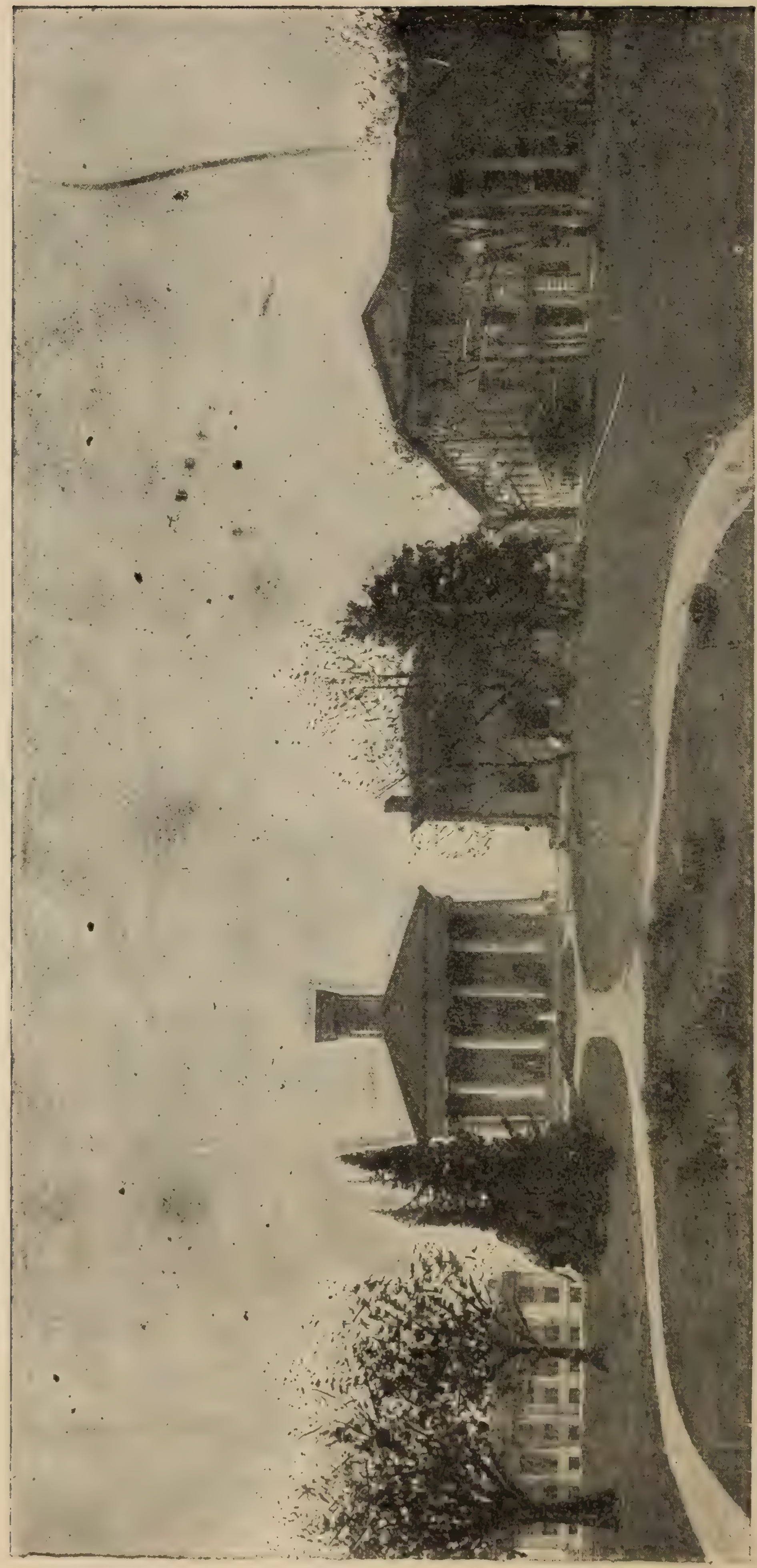

VIEW ACROSS CAMPUS.

THE UNIVERSITY OF GEORGIA

This University is now well known as the oldest State University in the United States. Its charter date was January, 1785. The makers of Georgia at this early date manifested great wisdom in planning from the beginning a complete system of education with the University at its head. Their purposes as set forth in the charter were to promote national prosperity and to encourage and support the principles of religion and morality. It was given land for its maintenance, and was finally opened for students in 1801. For a century and a decade it has been the vital factor of the State in achieving the purposes for which it was chartered. On a recent visit to the University, President Taft said of it:

"There is gathered about this institution a wealth of memory that in itself, with the ideals formed here, is ever to maintain, as it always has maintained, the civilization of the imperial State of Georgia."

The wealth of sentiment pervading an institution with such a history is an inspiration to all who become in any way a part of the University. Then, the future of the University is one of great promise. Its campus, which had been reduced to 40 acres, has recently been expanded to nearly one thousand acres. Much of this is to furnish experimental departments for a great college of agriculture which now has a new building of magnificent proportions and a large faculty. A chemistry building (Terrell Hall), a biological building (LeConte Hall), and a library building are comparatively new additions on the campus. A special building for the School of Education is in prospect, and this will become the headquarters of the Summer School. Expansion for greater service is the order of the day.

Geographically and industrially the State of Georgia occupies a commanding position, the Keystone State of the South. In another quarter of a century the University of Georgia promises to become one of the greatest educational factors of the world.

UNIVERSITY CHAPEL.

THE CITY OF ATHENS

The founders of the University deliberated for several years upon the proper location. Its present site was finally agreed upon after a survey of the State. It lies on the rolling hills of Northeast Georgia along an upper portion of the Oconee river, is high and healthful, the elevation being nearly eight hundred feet above sea level, free from malarial conditions, the water pure, and the climate excellent in every way. The city of Athens has grown up around the University as its central factor. It has become a prosperous city of nearly 20,000 inhabitants, one of the best cotton markets in Georgia, and a busy trade center generally. The State College of Agriculture, the State Normal School, and Lucy Cobb Institute are located here, all contributing to making this the genuine "Athens of the South."

The city is easy of access, five railroads now entering here.

THE SUMMER SCHOOL

The University is striving to serve the State in every possible way. That it may do so even in vacation time, the Summer School has been operated for the benefit of those who cannot take advantage of its opportunities during the regular session.

PURPOSE.

The purpose of the Summer School is primarily to extend to those who are otherwise engaged during the school year the advantages for instruction which the Universtiy can offer, together with the libraries, laboratories, and other facilities of the University. Courses are planned to meet the needs of the following classes:

1. Teachers in elementary and secondary schools, principals, supervisors and teachers of special subjects. The needs of this class have been placed first.
2. Students who desire to prepare for college by making up deficiencies to be able to meet entrance requirements.
3. Persons who wish to add to their general culture and attainments.

The work of the School therefore necessarily covers a wide range. The newer fields of public school work, such as nature study, manual training, drawing, domestic science, school gardening, laboratory methods and equipment, are fully presented. Advanced college courses are added as rapidly as there is sufficient demand for them. Requests for these are solicited.

TEACHER'S DIPLOMA COURSE.

The main purpose of the school has been greatly strengthened by the scheme of continuous course of study with intervening home work under the supervision of the Summer School leading to a Teacher's Diploma. This aims to extend professional preparation to those already in the field of teaching and to do this in the most economical way.

It is not merely a prolonged institute nor narrowly a chatauqua; it aims at steady, substantial work and progress.

GRADUATE COURSES.

In February, 1911, the Faculty of the University decided to open its Graduate School to students of the summer session. Three sessions of the Summer School with intervening home work will be counted as a substitute for the year's attendance necessary for the Master of Arts degree.

This still further strengthens the purpose of the School, and opens a valuable opportunity especially for teachers. The courses offered are described further on in this bulletin.

KINDERGARTEN DEPARTMENT.

A kindergarten department was added for the session of 1911 in response to certain demands, and by way of recognition of this very important and now necessary field of educational endeavor. This department was so well received that it will be continued during 1912.

COLLEGE PREPARATORY AND COACHING DEPARTMENT.

It has become necessary to operate a special department of the Summer School for students who are studying to acquire entrance units or to remove college conditions. This work cannot well be done in the courses for teachers. Beginning with the summer of 1912, these courses will be given separate from the courses for teachers, and will continue for eight weeks where necessary. The work is outlined later on in these pages.

SCHOOL IN COTTON GRADING.

This department will be conducted in the State College of Agriculture, and will give a complete course in the art and science of grading, classing, and sampling cotton. This will be a valuable course for teachers and for others. There will be a fee of one dollar for this course whether taken in connection with other courses or separately. Special information may be had from Professor R. J. H. DeLoach, Instructor of this School.

CORRELATION OF EDUCATIONAL FORCES.

The University is aided by other institutions in this work of the Summer School, especially by the State Normal Schools at Athens and Milledgeville. Leaders of educational thought from other parts of the United States will be engaged, thus bringing students of the Summer School in touch with the best of modern thought.

In recognition of conditions and needs of its section, this Summer School is not surpassed. It has become the most valuable meeting place for Georgia teachers.

The High School and College Conference is held during the first week of the session, and the contests of the prize winners of the Congressional High School Associations will be held this same week.

The Library—Gift of Mr. George Foster Peabody.

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GENERAL ASSEMBLY LECTURES.

These lectures are planned for open hours when all may attend. For 1912 a most entertaining and valuable program has been arranged. The lecture hour will be 8:45 p. m., making this the Chautauqua feature of the Summer School. The following is a general outline for the coming session:

First Week.

July 1.	Opening announcements. Addresses by Chancellor Barrow and State Superintendent Brittain.
" 2-3.	Two Concert evenings with the Schubert Quartet.
" 4.	Probably given to High School Contest program.
" 5-6.	Two Lectures by Dr. E. M. Poteat of Furman University.

Second Week.

July 8-9.	Two Illustrated Bird Lectures by Professor R. J. H. DeLoach, of the Agricultural College.
" 10-11.	Two evenings with Miss Evelyn Bargelt, Cartoonist.
" 12.	Illustrated Bird Lecture by Professor DeLoach, or an excursion to Tallulah Falls.

Third Week.

July 15-19.	Five Lectures by Dr. Alcèe Fortier, of Tulane University, giving the romantic, dramatic, and wonderfully interesting story of Louisiana, its history and literature, and a true picture of the Creoles with their happy blending of the French, the Spanish, and the American civilizations.

Fourth Week.

July 22-23.	Two Concert evenings with the Bunnell Concert Company.
" 24-25.	Two Evenings of Humor with Mr. Marvin Williams.
" 26.	Tallulah or the Bird Lecture, according to the date obtained for special train to the Falls.

Fifth Week.

July 29-30.	Two Illustrated Lectures on the Flowers of the Appalachian Mountains, and How Plants Travel, by Dr. Samuel M. Bain of the University of Tennessee, sometime government botanist.
" 31-Aug. 1.	Two Evenings with Mrs. G. B. Franklin, reader and impersonator.
Aug. 1.	Closing Program, probably some presentation by the Class in Expression under instruction of Miss Carolyn Cobb.

DENMARK DINING HALL.

ACADEMIC BUILDING.

Course of Instruction

I. EDUCATION

PROFESSOR CAMP.

1. History of Education.—A course placing stress on modern education. The aim will be to follow the movement of educational thought in such a way as to make this a helpful professional course. Rousseau, Pestalozzi, Froebel, Herbart, and Spencer will be the chief ones studied and applied.

Monroe's History of Education, Brief course.

2. Principles of Education.—Combined with Course 1, History and Principles of Education.

PROFESSOR CAMP.

3. Educational Psychology.—This is intended as an elementary course in psychology for teachers. It will emphasize the general principles of psychology and their application to teaching. Discussions and brief discourses on special topics will also be prominent features.

Texts: Reed's Introductory Psychology; Ryle's Educational Psychology.

4. Child Study.—Take Course 3.

PROFESSOR BRUCE.

5. Practical Pedagogy.—A course treating the General Principles of Teaching as applied to all school subjects, the making of lesson plans, the art of questioning, how to teach children to study, and kindred topics.

Home work: Strayer's Short Course in Principles of Teaching; Earhart's Teaching Children How to Study.

MISS DYER.

6. Primary Methods.—The purpose of this course is to give to the teachers practical suggestions by the use of which the work in the first four grades can be made more vital.

The teaching of reading, language and number in these grades will be fully discussed in their many phases, and plans will be given by which many of the pleasures which come to the city children in their school life can be brought to the rural school children. The plans given will be fully demonstrated by lessons with children.

A primary reading room will be open to the students taking this course where the newest and best books on primary methods can be used.

Home Study: McMurry's Special Method in Primary Reading, and Oral Work with Stories. Winterburn's Methods of Teaching.

PROFESSOR BROWN.

7. Grammar School Methods.—Lectures, discussions, and model lessons in the course of study for grades 3-8 of the common schools. Helpful devices and illustrations will be used in the subjects, Reading and Literature, Arithmetic, Composition and Grammar, Geography, History and Civics and Philosophy, and Nature Study. McMurry's works on Special Method in these subjects will be suggested for reading outside of the class.

PROFESSOR BROWN.

8. Literature in the Grades.—There will be given first a brief explanation of the pedagogical principles upon which a course in Literature for little children should be based. The course for each grade will be outlined in detail. Representative stories will be told and discussed by members of the class, and the class will memorize certain poems. The classics used will be: Scudder's Fables and Folk-lore, Robinson Crusoe, Hiawatha, Hawthorne's Wonder-Book, Robin Hood, and Legends of King Arthur.

DR. WHITE.

9. The Teaching of the Natural Sciences in the High School.—This course will suggest the character of work in the natural sciences suitable for high schools, proper methods of instruction and laboratory equipment for the same.

PROFESSOR BOCOCK.

11. The Teaching of Language in the High School with Special Reference to Latin and Greek.—A course for teachers in high schools. Bennett and Bristol's Teaching of Latin and Greek in the Secondary School, (Longmans, Green & Co.,) should be in the hands of students taking this course.

Home Study: Bennett and Bristol.

MISS BARKSDALE.

12. High School Literature.—A carefully arranged course of study based on the College Entrance Requirements and adapted to the four years' work in the High School.

Each classic will be studied as follows: (1) Subject matter; (2) type of literature; (3) revelation of the times.

Methods used in presenting the subjects to High School students will be discussed.

Studies selected from the following: Treasure Island, Ivanhoe, Sohrab and Rustum, Short Stories, American; The Vision of Sir Launfal, The De Coverly Papers, The Rime of the Ancient Mariner, Macbeth, As You Like It, Henry V., Midsummer Nights Dream, Cranford, Pride and Prejudice, or Northanger Abbey, Milton's Minor Poems, Carlyle's Essay on Burns, Burke's Essay on Conciliation, Macaulay's Essay on Addison, Idylls of the King, Silas Marner, The Vicar of Wakefield, Selected Poems from Wordsworth, Keats, Byron, Browning, and other 19th century writers. The Lady of the Lake.

PROFESSOR BRUCE.

15. School Government.—In this department will be given instruction in the principles and practice involved in the direction and control of the internal affairs of the school, special attention being given to the problems of discipline and the details of order and system.

The following general topics will give some idea of the work: The teacher and his qualifications; order and disorder; conditions of control; school punishment and rewards; school tactics; the recitation; the school program; moral education; school problems. Any text on school management will be helpful.

Home Study: Bagley's Class-room Management; Shaw's School Hygiene. Colgrove's The Teacher and the School, is recommended also.

PROFESSOR STEWART.

16. School Supervision.—This course is designed for superintendents of local systems, principals of high schools, and teachers in charge of smaller schools. Some time will also be given to supervision of county systems. The course will be adapted to the needs of those attending and will consist of lectures, laboratory exercises, conferences, and required readings. Principals will be aided in preparing their respective courses of study, regulations, and organizations. An attempt will be made to make those attending familiar with the best modern thought on the supervision and administration of a school or schools. It will be especially helpful tto recent graduates and principals of high schools who have also the supervision of the lower grades. The many volumes and reports bearing on this subject in the University library will be at the service of the class.

Home Study: Gilbert's The School and its Life; Hollister's Administration of the High School.

PROFESSOR WOOFTER.

101. A Graduate Course.—See Graduate Courses later.

MISS OPPENHEIMER.

18. Kindergarten Observation.—A demonstration kindergarten is conducted daily during the session from 8:45 to 10:25. Observation during the two hours is a regular part of the kindergarten course, and is recommended to primary teachers and others interested in the education of small children.

19. Kindergarten Methods and Theory.

19*a*. Kindergarten Methods.—1. The Kindergarten program,—a study of the most dominant interests of children between the ages of 4 and 6 years, and methods of utilizing these interests for educational ends. Examination of a few good programs, includnig "A Book of Programs," by Jane Hoxie, (Steiger & Co., publishers, N. Y.)

2. Special discussion relating to principles of selection and presentation in the following:

a. Handwork, (1) Occupations. (2) Gifts.

b. Stories and songs.

c. Games and rhythms.

19*b*. Kindergarten Theory.—Designed to emphasize those fundamental Froebelian principles which belong as much to the mother, the Sunday School teacher, and the primary teacher, as to the kindergarten.

1. A study of the underlying principles of kindergarten education, as presented in Chap. I. Froebel's "Education of Man."

2. Discussion of such questions as the following:

a. Kindergarten as a preparation for the primary grades—(1) In regard to habits of attention, concentration, self-control, self-reliance, obedience, initiative, self-expression. (2) In regard to specific branches of the primary curriculum. (3) In regard to physical welfare.

b. The kindergarten in relation to the home. Coöperation of parent and teacher, and its influence upon the child. Parents' meetings, and other forms of community work.

c. Methods of discipline, and their relative values.

d. The educational value of Festival celebrations.

e. Decoration in the kindergarten.

f. Individual problems, suggested by members of the class.

Kindergarten students are advised to take Education 1 or 2, and Education 3 or 4. A selection from the following courses is also suggested:

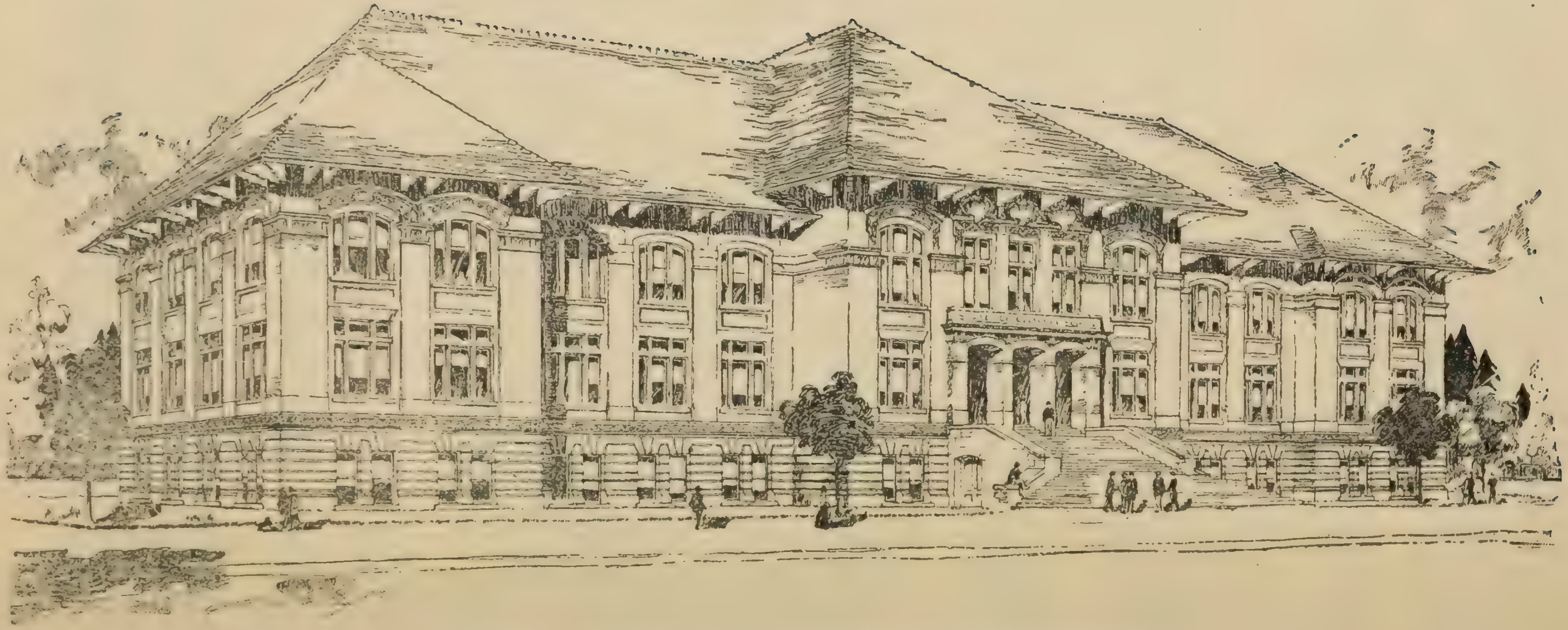
Education 6.
Agriculture 19.
Manual Training 54.

II. AGRICULTURE

Miss Dyer.

19. Nature Study.—This course is designed as an aid and guide to the practical teacher, showing how nature study can be made to fit into the course of study of our schools.

Emphasis will be placed on the teaching of life-histories, life habits, functions and processes, and not on mere structure study.



GEORGIA STATE COLLEGE OF AGRICULTURE.

Attention will be given to the adaptation to function and environment, the interrelations of plants and animals, their economic aspects, and practical bearing on human life.

A good course of nature study for the grades will also be given.

The following general topics will be discussed and principles will be demonstrated by means of a model class. The general study of birds, frogs, typical insects, lower animals, higher animals, the school garden, germination studies.

Home Study: How Nature Study Should be Taught, Bigelow; Holtz, Nature Study.

PROFESSOR FAIN.

20. Elementary Agriculture and School Garden.—The school garden, transplanting plats, and the laboratory will be used in demonstrating methods of teaching elementary agriculture in the common schools. The subjects studied will include the origin and formation and physical properties of the soil, the movement of water in the soil, and methods of conserving it; germination of seed, plant growth and seed selection.

PROFESSOR FAIN.

21. Agricultural Physics.—A laboratory course offered to those who wish to continue the work in Agriculture. The physics of the soil will occupy a considerable part of the time. The remainder of the time will be devoted to other physical problems that apply to rural conditions.

III. ENGLISH

PROFESSOR SANFORD.

24. English Grammar.—This course will cover the work of the seventh and eighth grades, aiming primarily at giving teachers a deeper, surer knowledge of the subject matter of grammar, with especial emphasis upon the more difficult points—the function of case, the analysis of the English sentence, the verb, the infinitive and participle constructions, etc.

"It has been my constant endeavor to bear in mind the true position of the grammarian—that he is simply a recorder and arranger of the usages of language, and in no manner or degree a law-giver; hardly even an arbiter or critic."—Whitney.

Home Study: Whitney's Essentials of English Grammar, or other books agreed upon.

MISS BARKSDALE.

25. Composition and Rhetoric.—Texts to be selected.

The course will deal primarily with the choice of words, sentence and paragraph structure, together with the development of the outline for longer compositions. Several themes developed in full will be required.

The aim of the course will be to present the subject in such a way as to meet the practical needs of the teacher of Rhetoric in the High School.

PROFESSOR SANFORD.

27. Shakespeare.—Macbeth, Merchant of Venice, As You Like It, studied critically, and also by way of illustrating, in a general way, subject-matter, classification, setting, plot, character, treatment, style, etc.

The following subjects will receive some attention: Minstrelsy; Folk Drama; Religious Drama; Miracle Plays; Moralities; Interludes; Masques; The Elizabethan Stage; The Epic, the Lyric, and the Drama; Shakespeare's Life.

Home Study: Dowden's Shakespeare, His Mind and Art.

PROFESSOR PARK.

28. Literary Criticism.—The principles of literary criticism and the practical application of these principles to the various forms of literature.

The course will undertake to teach the student "whom to read" and "what to read."

Home Study: Literary Criticism, Winchester.

MISS COBB.

29. Expression.—The Emerson System of Expression is based upon the fundamental laws of all art. It embraces literary interpretations, expressive physical culture, and voice culture. Its aim is the development of literary taste through dramatic appreciation, and of personal growth through self expression, and the adequate interpretation of another's thoughts.

The aim of this course is an explanation of the methods of this system, and their application to the general needs of the teacher.

Selections from our public school readers will be used in connection with Dr. Emerson's "Evolution of Expression," and "Perfective Laws of Art."

PROFESSOR PARK.

102. A Graduate Course, The English Drama. See Graduate Courses later.

IV. GEOGRAPHY

PROFESSOR MERRILL.

31. Geography, Common School.—Type studies of land and water formations, climatic influences, etc., will be stressed, especially in their influence upon the development of man. Methods of presenting geographical subjects will be closely studied, the treatment of great world movements will be followed out in their geographical aspects, and the classes will enter into a free discussion of industrial and commercial developments as resting upon physiographic forces. Map drawing, modeling, use of charts and pictures, the value of current topics and geographic stories will be considered pedagogically.

Bring the State adopted text-book, Frye, for class-room work and any other standard book you may have upon this subject. All method work will be based upon McMurry's Special Method in Geography, which every teacher ought to own.

Home Study: McMurry's Special Method in Geography, McMurry's Larger Types of American Geography, and Carpenter's Europe, Sutherland's The Teaching of Geography, is commended.

32. Physical Geography.—This course is designed for high school teachers but is especailly well adapted to teachers in the lower grades as giving more advanced work along geographic lines. The course consists entirely of laboratory work in this subject together with the best methods of its presentation in class. Physical geography, like the sciences of physics and chemistry, cannot be taught satisfactorily from a text-book alone. The use of a laboratory method in this subject allows the secondary school a full unit in the University credit system; for this reason if for no other, every secondary school teacher should be familiar with laboratory texts and laboratory methods. The text used in this course will be Merrill's A Field and Laboratory Note Book in Physical Geography.

Home Study: Any good physical geography as Hopkins' or Maury-Simonds; also Gannett-Garrison-Houston's Commercial Geography, Coman's Industrial History of the United States.

VI. HISTORY

MISS FLISCH.

35. United States History.—Beginning with a review of the religious and political conditions in Europe which were responsible for the settlement of America, it is designed in this course to treat comprehensively—as far as the time will allow—the development of our political and constitutional history. A special effort will be made to give helpful suggestions to teachers as to the organization of courses in the schools.

This course will be given in two sections, the first covering the period prior to 1850, the second from 1850 to the present time.

MISS FLISCH.

37. Ancient History.—This course will cover the more important events in the history of Greece and Rome, prefaced by a

"OLD COLLEGE."—Erected in 1801, repaired in 1908, used as dormitory for women during Summer School.

CANDLER HALL.—Erected during the administration of Governor Candler b legislative appropriation. Used as dormitory for women during Summer School.

brief review of the ancient civilization of the Nile and the Tigris-Euphrates valleys. It is recommended that students provide themselves with a copy of either Myers's Ancient History (Revised Edition), or West's Ancient History.

DR. MCPHERSON OR PROFESSOR BROOKS.

103. A Graduate Course. See Graduate Courses later.

VII. LANGUAGE

PROFESSOR HOOPER.

41. Beginning Latin.—A course for beginners. Special stress is laid on pronunciation, and the essentials of beginning work are stressed.

42. Caesar: four books of the Gallic War. Attention is paid to syntax, and the subject matter is emphasized by illustrations and by reference to other writers.

43. (a) **Cicero:** Orations Against Catiline. (b) **Virgil:** Aeneid, Book I. Each course will occupy three hours per week, and students may elect either or both. According to the demand, either may be discontinued, and the entire time be devoted to one of them.

GREEK.

PROFESSOR BOCOCK.

45. Elementary Greek.—For teachers and others who wish to review a part of first-year Greek. Benner-Smyth, Beginner's Greek Book.

46. Advanced Greek.—Special readings and more advanced grammatical work, according to the needs of applicants. For teachers and for conditioned college students.

FRENCH.

PROFESSOR LUSTRAT.

48. French I.—Beginners: Drill on pronunciation. Rapid study of the most elementary rules of French grammar and syntax.

Study of verbs, regular and irregular.

The purpose of this course is not to give to the student a thorough knowledge of grammar, and syntax, which could not be acquired in such a short time, but rather to enable him to continue his study by himself.

The student who intends pursuing the course in French in the Summer School of the following years, should, during the intermission, write as many as possible of the exercises contained in "French Syntax and Composition," by J. Bouvet, Heath & Co., and present them for correction to the professor in charge at the beginning of the next session of the Summer School.

Besides, to be admitted to the 2nd year course, the student should read during the intermission between the two Summer Schools, the following books:

1st. Sans famille, by Malot.
2d. Un cas de conscience, by Gervais.
3d. L'Abbe Constantin, by Halvey.

49. French II.—The work of the 2nd year will consist of:

1st. A thorough study of grammar, syntax and verbs.
3d. Translation from English into French.
3d. Writing of letters and easy essays in French.
4th. Reading of modern text-books by standard French writers.
5th. Parallel reading.

SPANISH.

49. .A private course in Spanish will be given by Professor Lustrat provided a sufficient number request it.

GERMAN.

PROFESSOR MORRIS.

51. Elementary German.—Introductory course in pronunciation, conversation, and elements of grammar. Bacon's German Grammar.

Home Study: Stern's Studien und Plaudereien, and about fifty pages of an elementary reader.

52. Advanced German.—Continuation of the course in elementary German, which must have extended over the Home Study. Rapid reading and conversation.

VIII. MANUAL TRAINING

HANDICRAFTS.

MISS LOTT.

54. Handicrafts for Primary Grades.—Paper folding and cutting, clay modeling, rug weaving, the simpler forms of cord and raffia work, reed weaving and cardboard construction.

Two divisions, one for first and second grade work, the other for higher grades.

55. Advanced Course in Basketry.—The different weaves in reed, and raffia, and the use of native material, including brook willow, oak splints, river reeds, wire grass, and pine needles.

Probably in two divisions also.

56. ART DEPARTMENT.

HELEN P. HOOVER.

—— ————. *Associate.*

The course will be planned in two large divisions—work for the primary teachers (teaching of 1st, 2nd, 3rd grades); and work for the grammar grade teachers (4th, 5th, 6th, 7th, 8th grades).

Each division of the class will be given instruction in crayon, water-color, and pencil handling, and the manual arts work that should be correlated with regular school drawing and color work will be given.

The general class work will be planned with the view of not only giving a knowledge of the subject taught, but it will aim to give the student teachers a definite and practical plan of adaptation of their knowledge to the needs of their classes.

The course will combine instruction in form, color, and design. Plant life, landscape, animal and figure drawing; principles of perspective and principles of design and its application will be given.

Arrangements for work by advanced pupils in both primary and grammar classes will be made for such hour as is found convenient for the majority.

Special lectures wlil be given in methods of presentation, and outdoor sketching lessons will be given several times each week.

DOMESTIC SCIENCE.

MISS RANDALL.

57*a*. Course I.—For teachers of general subjects and teachers of Domestic Science in rural and graded schools. Special attention will be given students who wish assistance in introducing this subject into their schools.

Course will include both class lectures and discussions, and practical lessons in Cooking.

1. Class Lectures and Discussions. Equipment for teaching Domestic Science.

Courses of Study:

a. Basis for planning.

b. Adaptation to school and home conditions.

Methods of Teaching.

Planning and serving of meals.

School Lunches.

Food Study and Dietetics.

1. Cooking Lessons.—Quick breads, yeast breads, cereals, beverages, eggs, milk, cheese, vegetables, meats, fruits, salads, desserts, invalid cookery.

57*b*. Course II.—For Housekeepers and others interested in a general course in cookery.

Breads, soups, meats, fish, vegetables, fruits, salads, pastry, desserts, canning and preserving, jelly making.

In connection with the cooking lessons the planning of daily menus with reference to the balanced ration will be considered.

In both courses instruction and practice in the serving of meals will be given. Students will be divided into groups. Each group will plan, prepare, and serve one or more meals to members of the class and invited guests.

Students in both courses are asked to come provided with white aprons and hand-towels.

The School of Domestic Science will be conducted in the State Normal School where complete equipment will make the work far more efficient.

58. PHYSICAL EDUCATION.

Miss Kolb.

The purpose of this department is to present to teachers ways and means of bringing about healthful conditions in the schoolroom, health and development among school children and recreative rest for the teacher and children.

Lectures and open discussions on School and Personal Hygiene, School Sanitation, play grounds, games. Study of present conditions and methods of improvement.

Corrective Development exercises.

All who expect to take either or both of these courses are requested to supply themselves with summer blouses or waists, loese and comfortable enough to allow free movement of the arms. Those who wish to use the swimming pool should bring bathing costumes.

IX. MATHEMATICS

Supt. Moon.

62. Arithmetic.—The course in Arithmetic will be given from the standpoint of the teacher. Stress will be placed on tracing the genesis of each fundamental topic as it is derived from preceding topics. The inter-dependence and relation between the several divisions will be emphasized.

The work will be based on the State adopted book, at the same time lists of important problems will be discussed and solved and reference lessons will be assigned requiring the reading of such books as are found in the library.

63. Algebra I.—A beginner's course designed to cover Algebra through simple equations. If the character of the class is such as to demand it, special attention will be given to methods of teaching the subject.

DR. STEPHENS.

64. Algebra II.—A course just in advance of Algebra I, designed to begin with Involution and proceed through Quadratic Equations.

Home Study: A good high school Algebra.

65. Geometry I.—A course in Books I-II of Plane Geometry for beginners or those who wish to review the subject.

66. Geometry II.—A course in Books III-V of Plane Geometry.

Text for Class and Home Study: Wentworth's New Plane Geometry.

67. Plane Trigonometry.—A course in the essentials of Plane Trigonometry. Text: Wentworth's.

X. NATURAL SCIENCE

BIOLOGY.

DR. CAMPBELL.

70. Physiology.—The object of this course is, first to extend the teacher's knowledge of the subject of Physiology, and, second, to consider methods for teaching it to students of various grades.

During the brief time that the Summer School is in session, it is not possible to cover the entire field in the class room. Emphasis is therefore laid upon those points which it is of special importance that the teacher should understand thoroughly, and the attempt is made to prepare the teacher to meet the difficulties that are of most frequent occurrence. Experiments and demonstrations are given before the class at almost every exercise, and special attention is given to the devising of home-made apparatus to illustrate all points that are capable of being elucidated in this way. Frequent conferences are held, and by means of these it is hoped that each teacher will receive just the sort of help that is required for the special grade of work in which he or she is engaged.

71. Botany.—In this course the attempt will be made to bring the teacher into a more intelligent contact with his environment. With this end in view, the study of plants will be taken up, first from the standpoint of structure, and then from the standpoint of adaptation as an interpretation of structure. A few simple experiments in plant physiology will be conducted in order that the most striking processes in plant life may be in a measure understood. The effort will also be made to introduce the teacher to the methods of identifying plants. In brief, the object of the course is to enlarge the equipment of the teacher who has to conduct work in Nature Study, and the details will be shaped as the needs of the class may show to be desirable. The work will be largely done in the laboratory, and any modern text may be used to advantage. Bailey's Botany, and Stevens' Introduction to Botany are especially recommended.

72. **Zoölogy.**—This course is designed for teachers who have to teach Nature Study, but who wish to equip themselves for their work further than they can do in courses in Nature Study as usually given. The work will consist largely in the laboratory study of a few selected animals, and the internal structure and physiology will be considered as well as questions pertaining to their adaptations to environment.

Home Study: Jordan and Kellogg's Animal Life.

PHYSICS.

DR. HENDREN.

74. **Elementary Physics.**—This course is especially designed to meet the needs of the high school teacher of Physics who wishes to review the fundamental principles with a view to mastering the best methods of presenting them clearly. The method which is presented is to group the discussion and recitation work around a series of well-designed demonstration and laboratory experiments in order to give the student a concrete grasp of the fundamental phenomena. It is realized that the average Georgia high school has very little equipment for this kind of work, therefore, an effort will be made to show how such a course may be profitably given by a teacher of some industry and ingenuity with a fairly small outlay for material and apparatus. For this purpose each of the topics taken up will be demonstrated by both the finished apparatus of the University and simple and inexpensive pieces of which the methods of construction and approximate cost will be given to the class. Those wishing it will be given an opportunity to design and construct such apparatus. As far as possible, in order to profit by the advice of the instructor, it would be well for those taking the course to have some definite idea of the equipment and funds which they will have available in their own work.

It being impossible to cover the whole ground of Physics in one Summer, the course is divided into two parts to be given during alternate Summers as follows:

Part 1. Mechanics, Heat and Sound.—This work will be given in 1912.

Part 2. Electricity, Magnetism and Light. This will be the course for 1913.

75. **Physical Laboratory.**—This is a course primarily designed for the same class of students as course 74 and will be closely allied with it. Three laboratory experiments per week will be performed requiring from two to three hours for each experiment.

TERRELL HALL (1905).

LeCONTE HALL (1905).

Methods of constructing and the approximate cost of apparatus will be taken up with those interested.

79. Advanced Physics.—This is a course of college grade for those students who have had a good elementary Physics course and wish to pursue the study with a view to advanced study or graduate work. The subjects of Mechanics and Heat will be taken up mainly from the laboratory standpoint; the class discussions centering around a series of 15 laboratory experiments illustrating those fundamental principles of Mechanics which underly all advanced work in Physics. The time required for the course will be three recitation and three laboratory periods per week for the five weeks.

CHEMISTRY.

DR. WHITE.

76. Elementary Chemistry.—An introduction to the study of Chemistry, involving thorough study of typical elements and compounds, with a view to understanding the nature of chemical energy, the characteristics of chemical phenomena and the fundamental laws of chemical action. Lectures (copiously illustrated by experiments) and recitations. No text-book required, but suitable reference books will be placed at the disposal of students and appropriate texts recommended if desired.

77. Advanced Chemistry.—Lecture course on the chemistry of foods; pure foods and adulterations. Lectures and recitations. No text-book required; printed syllabus will be furnished.

Note.—Supplementary to Course No. 76, a course of laboratory instruction in Experimental Chemistry will be provided if desired.

Home Study: To be assigned.

XI. GRADUATE WORK

PROFESSOR BOCOCK.

Under the authority of the Board of Trustees of the University, the Directors of the Summer School began in 1911 to offer some opportunity for advanced work to properly qualified college graduates. They hope to be able to offer a few graduate courses each summer. It is possible for graduates who have the time to do considerable study in the intervening periods thus to secure a Master's degree by faithful work in the graduate courses of at least three summer sessions. The study of the intervening periods will be under the guidance of the professors. In connection with the major course a thesis or essay is required for submission to the Faculty of the University. Candidates for degrees will find the regulations governing graduate work fully set forth in the General Catalogue of the University.

The following courses will be given in 1912:

HISTORY OF THE ENGLISH DRAMA TO THE END OF THE ELIZABETHAN PERIOD.

Major Course.

PROFESSOR PARK.

A general survey will be made of the intellectual, social, and political life of the English people from the 12th to the 16th centuries.

Specimens of the early English Religious Drama, the Morality Play, and the Interlude, will be read and studied. Selected plays of Heywood, Lyly, Marlowe, Greene, Peele, Shakespeare, Jonson, Webster, Beaumont and Fletcher, Middleton, Massinger, and others will be studied as to their sources, dramatic technique, and literary worth.

During the summer, in addition to daily lectures, the student will be required to read works not usually accessible in localities of meagre library facilities. Throughout the year regular reports will be required on the outlined course of study.

The course will be based upon:

Traill's Social England.

Green's History of the English People.

Jusserand's English Wayfaring Life, 14th Century.

Ward's History of English Dramatic Literature.

Bates's The Early English Religious Drama.

Schelling's Elizabethan Drama.

Symonds's Shakespeare's Predecessors in the English Drama.

Manly's Specimens of the Pre-Shakesperean Drama.

The Mermaid, Everyman, and "Belles Lettres" editions of the English Dramatists.

Only Part II of this course is offered in 1912; that is, the course is offered only to those who began it in 1911.

Minor Course.

If a minor course in English Literature is taken, the work will be based entirely on the Elizabethan Drama. Special attention will be given to Marlowe, Webster, Shakespere, Jonson, and Beaumont and Fletcher.

This course will cover about one-half the work of the Major Course. In addition to the home work for the year the student will attend the lectures of two Summer Sessions.

PRINCIPLES OF EDUCATION.

PROFESSOR WOOFTER.

A study of the development of the individual and society.

The main stress of this course will be on the social phases of education and the organic unity of the individual and society.

1. Historical introduction.

2. Modern conceptions of Education.
3. The course of personal development in its individual and social aspects. Importance of physical and moral education.
4. The school as a social institution.
5. Social problems and education.

Prerequisites for this course: General Psychology, History of Education.

Partial Bibliography: Monroe's History of Education, Cubberley's Changing Conceptions of Education, Tyler's Growth and Education, Tyler's Man in the Light of Evolution, Nearing's Social Adjustment, Ellwood's Social Problems, Ward's Applied Sociology, Griggs's Moral Education.

This course is offered as Part I or Part II of a Minor, or as Part I of a Major.

LATIN.

Professor Hooper.

1. Cicero, de Finibus Bonorum et Malorum.
2. Cicero, de officiis.
3. Twelve exercises (one each month) in translating English into Latin.

A Minor course. Prerequisite courses: Latin 1, 2, 3, 4, or equivalents.

GREEK.

A Minor course in Greek will probably be offered if there is demand therefor.

XII. PREPARATORY AND COACHING SCHOOL.

COURSES OF INSTRUCTION.

Latin. *Professor Hooper.*

Six Orations of Cicero, with Prose Composition and Grammar work.

History *Mr. Nix.*

Ancient History.

Modern History.

Note.—This is Freshman History, but may be used as one unit for entrance.

English. *Mr. Nix.*

Course I.—Rhetoric, required classics and classics for general reading. Three recitations per week in Rhetoric. Three recitations per week in required classics. Classics for general reading to be assigned for study outside of class-room and reports to be made to Instructor.

Course II.—Freshman English. "Genung's Working Principles of Rhetoric." Students who have *failed* in work of Freshman English will be given an opportunity to make up such work as the Department of English demands of them. Six hours per week for the whole time, or part of the time, as may be required.

Physics. *Mr. Miller.*

Recitation 1 hour per day; laboratory 10 hours per week.

Note.—Students who complete this course satisfactorily may get credit for Feshman Physics, if they desire.

Mechanical Drawing. *Mr. Miller.*

This course will require about three hours per day, and will entitle the student to credit for Freshman Drawing, provided his plates are satisfactory to Prof. Griggs, and provided the credit is not used to satisfy entrance requirements.

Physical Geography. *Professor Merrill.*

Recitations five hours per week. Laboratory three hours per week. Texts: Hopkins' Elements of Physical Geography and Merrill's Laboratory Manual.

Mathematics. *Dr. Pond* and *Mr. Miller.*

Plane Geometry, five books.
Algebra, Quadratics and beyond, 4 weeks, ½ unit.
Solid Geometry, 4 weeks,...............½ unit.
Trigonometry, Plane, 4 weeks,..........½ unit.
Freshman Algebra, Hawkes' College Algebra.
Spherical Trigonometry.
Sophomore Analytical Geometry.

Note.—Elementary Algebra and A.B. Sophomore Analysis will be given if there is a demand for them.

Fees.

The fees for this school are as follows:

For one 1-unit or eight weeks' course,	$20.00
For each additional course,..........	10.00
Each half-unit, or four weeks' course,	10.00

These fees must be paid to the Registrar before entering the classes.

Information.

This eight weeks' school will open on the same date as the other departments of the University Summer School, Monday, July 1, and will close Saturday, August 24.

Students in these classes are entitled to all the privileges of the General Summer School, including lectures, dormitory and dining hall, use of tennis courts, etc. Board can be obtained for from $3.50 to $5.00 per week, at restaurants or private boarding houses.

Room rent, where two students room together, will be from $5.00 to $8.00 per student for eight weeks.

The Director will secure a room in advance for any student who so desires. Any student contemplating work in these classes this summer is requested to write to Dr. R. S. Pond, Director University Summer Preparatory and Coaching School, Athens, Ga.

GENERAL INFORMATION

EXPENSES.

Railroad Rates.—The Southeastern Passenger Association has granted a rate of one and one-half fare plus 50 cents on the certificate plan from stations in Alabama, Florida, Georgia, South Carolina, and Tennessee.

This means that when your ticket to Athens is purchased, you should take a certificate from the agent, and this will enable you to purchase the return ticket for half fare plus 50 cents. Everybody coming should bring a certificate.

Tickets will be on sale beginning June 29th, and continuing through July 20th, good to return any date up to September 30th.

Registration Fees.—The general fee for all Teachers' Courses is $5.00, which fee entitles the student to any courses elected and to a season ticket to the lectures.

The fee for Graduate Courses is $15.00 per session.

The fees for Preparatory and Coaching Courses are $20.00 for one course, $30.00 for two courses.

The fee for the Cotton Grading School is $1.00.

Board and Lodging.—The University dormitories, Candler Hall and Old College, will be reserved for women, New College for men. The dormitories are now comfortably furnished and students occupying them need to bring toilet articles, sheets, pillows, spreads, and towels. The charge for rooming in the dormitories will be $3.50 for the session. These dormitories have been in the main refurnished and improved greatly. Room may be secured in advance by enclosing fee to the Registrar, T. W. Reed.

Meals will be served in Denmark Dining Hall, which is near the dormitories. The charges for meals will be $5.00 per week or $20.00 for the session of five weeks.

There will be a matron in charge of each of the dormitories for women and a reception room for callers will be provided.

In the vicinity, rooms may be rented for about $1.50 per week per person, and meals obtained at the Dining Hall or elsewhere.

Room may be rented in the dormitory and meals taken at nearby private houses or restaurants.

Board and lodging in private families may be had for from $5 to $6.25 per week for the session, generally two in a room.

Books and Material.—The cost of text-books and material will of course depend upon the courses that the student may elect to pursue. From $3 to $5 should be ample. All necessary books and materials may be obtained here in Athens at moderate prices. Students who possess any books named in the outlines of courses should bring them, also any other books related to courses desired.

Other Expenses.—A few dollars for laundry and incidentals will complete the list. For students occupying dormitories or renting rooms nearby the total necessary expenses while in Athens may be only $35 to $40 for the full session for teachers.

RECREATION.

After the first Saturday there will be no classes on Saturday unless arranged for by individual instructors. Excursions may be taken to nearby points of interest. Tallulah Falls, known as the Switzerland of the South, is but a few hours ride from Athens via Lula and Cornelia. Congenial parties may be made up almost any Saturday. A special through train will be run some day for the better accommodation of the Summer School on a Tallulah trip, probably the 12th or 26th.

SWIMMING POOL.

The first floor of the new Alumni Hall will be ready for use for the 1912 session. This will give the students of the Summer School access to a magnificent swimming pool which is in this building.

IMPORTANCE OF PROMPT AND REGULAR ATTENDANCE.

Students may enter at any time, yet the term is so short that for best results all students should come promptly for the first day and continue throughout the entire session. The first week's work is generally the key to the whole course.

Monday, July 1st, will be registration day, and classes will begin work Tuesday morning at 8:45 o'clock. The opening program will be Monday, 8:45 p. m., in the Chapel.

On Wednesday evening at 8:45 there will be an annual State High School Association contest program, and other contests will be held on Wednesday and Thursday.

PLAN OF COURSE OF STUDY.

The following scheme offers several arrangements of subjects for a systematic course leading to a diploma. Courses are to be taken in the Summer School for three or more sessions and these supplemented by intervening home work. This is for the benefit of teachers now in the field who cannot take advantage of the regular course in one of our normal schools or the University, but who wish the opportunity to extend their professional preparation.

REQUIREMENTS FOR THE TEACHER'S DIPLOMA.

1. To be eligible for this diploma, graduation from an approved high school or college, or the equivalent thereof, is required. Summer School courses must be pursued for at least three summer sessions, and all home work connected with any course must be completed and passed upon to get credit for that course. Twelve such courses will be the minimum number to be completed. Courses should be chosen so that the ones coming last may have the least amount of home work, otherwise another period must be given to home work.

Courses may be elected to give several combinations, according to whether preparation is for primary, grammar, high school, or special work.

2. Required courses and electives are as follows: (1) Psychology or Child Study. (2) One course from Kindergarten, Primary Method, Grammar School Method, High School Pedagogy, Principles of Teaching. (3) History of Education. (4) School Management or School Supervision. (5) Two advanced courses not previously covered in high school or college. (6) Four more such advanced courses or courses from Manual Training or Agriculture Groups and common school reviews.

3. Those desiring credit for any course must take an examination covering the work done in that course during the session of the Summer School and also work assigned for home study in connection with that course. Those not desiring credits need not take examinations.

A Teacher's Diploma with the title, Graduate of the University Summer School, will be conferred by the University upon any one completing the required number of acceptable courses.

ABSTRACT OF COURSES

I. EDUCATION.

1. History of Education.
2. Educational Theory.
3. Educational Psychology.
4. Child Study.
5. Practical Pedagogy.
6. Primary Method.
7. Grammar School Method.
8. Literature in the Grades.
9. The Teaching of Natural Science.
10. The Teaching of Languages.
12. Literature in the High School.
13. The Teaching of History.
14. The Teaching of Reading.
15. School Government.
16. School Supervision.
18. Kindergarten.
101. Graduate Course.

II. AGRICULTURE.

19. Nature Study.
20. Elementary Agriculture and School Gardening.
21. Advanced Agriculture.

III. ENGLISH.

24. English Grammar.
25. Rhetoric and Composition.
26. English Literature.
27. Shakespeare.
28. Literary Criticism.
29. Expression.
102. Graduate Course.

IV. GEOGRAPHY.

31. Common Sch'l Geography.
32. Physical Geography.
33. Commercial Geography.

V. HISTORY.

35. U. S. History.
36. Civics.
37. Ancient History.
38. English History.
103. Graduate Course.

VI. LANGUAGES.

41. Latin, Elementary.
42. Caesar.
43. (a) Cicero. (b) Virgil.
45. Elementary Greek.
46. Advanced Greek.
48. Beginner's French.
49. Second Year French.
51. Beginner's German.
52. Second Year German.
106. Latin, Graduate.

VII. MANUAL TRAINING, ETC.

54. Handicrafts.
55. Bench Work.
56. Drawing.
57. Domestic Science.
58. Physical Culture.
59. Music.

VIII. MATHEMATICS.

62. Arithmetic.
63. Algebra I.
64. Algebra II.
65. Geometry I.
66. Geometry II.
67. Plane Trigonometry.
104. Graduate Course.

IX. NATURAL SCIENCES.

70. Physiology.
71. Biology.
72. Botany.
73. Zoölogy.
74. Physics.
75. Physical Laboratory.
76. Chemistry I.
77. Chemistry II.
78. Chemical Laboratory.

X. PHILOSOPHY AND SOCIAL SCIENCE.

81. Psychology.
82. Economics.

XI. GRADUATE.

See above.

XII. PREPARATORY AND COACHING.

As listed.

DAILY RECITATION SCHEDULE

8:45—9:35.

3. Grammar School Method.
16. School Supervision.
18. Kindergarten Observation.
35. History U. S.
56. Drawing, (4-8).
57. German I.
63. Algebra I.
71. Botany.
57*a*. Dom. Science (N'mal Sch.)
65. Geometry I.

9:35—10:25.

5. Practical Pedagogy.
18. Kindergarten Observation.
25. Rhetoric.
27. Shakespeare.
29. Expression.
45. Greek I.
52. German II.
56. Drawing (4-8).
57*a*. Dom. Science (N'mal Sch.)
62. Arithmetic.
64. Algebra II.
76. Chemistry I.
79. Physics.
103. History, Graduate.
55. Basketry.

10:25—11:15.

3. Psychology.
11. Teaching of Languages.
19. Nature Study.
37. Ancient History.
43. Latin III.
62. Arithmetic.
67. Trigonometry.
74. Physics.

11:30—12:20.

4. Child Study.
12. High School Literature.
11. Teaching of Languages.
24. Grammar.
28. Lit. Criticism.
35. History, U. S.
42. Latin II.
46. Greek II.
49. French II.
54. Handicrafts.
57*b*. Dom. Science (N'mal Sch.)
58. Physical Education.
70. Physiology.
77. Chemistry II.
101. Education, Graduate.
19. Kindergarten Methods and Theory.
56. Drawing (1-3).

12:20—1:10.

1. History of Education.
6. Primary Methods.
24. Grammar.
21. Ag. Physics.
31. Geography.
41. Latin I.
48. French I.
56. Drawing (1-3).
66. Geometry II.
102. English, Graduate.
29. Expression.
57*b*. Dom. Science (N'mal Sch.)

1:10—4:00.

Dinner Recess.

4:00—4:50.

15 School Management.
17. Kindergarten Theory, Stories, Plays, etc.
20. Agriculture (2 periods).
55. Basketry.
57. Domestic Science.
75. Physical Laboratory.
58. Physical Education.

4:50—5:40.

8. Literature in Grades.
20. Agriculture.
32. Geography, Physical.
54. Handicrafts.
73. Zoölogy.
75. Physical Laboratory.
58. Physical Education.

The McGregor Co, Athens, Ga.

ANNOUNCEMENT OF THE

University of Georgia

For the Session 1913-1914

With a Register of Officers and Students for
the Session 1912-1913

Chartered A. D. 1785

THE McGREGOR CO., PRINTERS, ATHENS, GA.

THE UNIVERSITY OF GEORGIA

CALENDAR 1913-1914

June 30, Monday:	Opening of the Summer School.
August 2, Saturday:	Close of the Summer School.
September 13:	Meeting of the Faculty.
September 15:	First day of Registration.
September 15-18:	Examinations for Entrance.
September 17:	Opening of the First Term.
November 27:	Thanksgiving Day.
December 23:	Close of the First Term.
January 5:	Opening of the Second Term.
January 5:	Opening of the Cotton School.
January 19:	Birthday of General R. E. Lee.
February 21:	Exercises in commemoration of the 113th Anniversary of the Demosthenian Society and the 94th Anniversary of the Phi Kappa Society.
February 22:	Washington's Birthday.
March 21:	Close of the Second Term.
March 23:	Opening of the Third Term.
April 25 - May 2:	Encampment of Cadets.
May 20:	Last date for submission of prize essays.
June 8:	Meeting of the Board of Visitors.
June 11:	Annual Session of the Board of Trustees.
June 10-12:	Examinations for entrance.
June 13, Saturday:	8:30 P. M., Sophomore declamation contest.
June 14, Sunday:	11:00 A. M. Baccalaureate Sermon.
June 15, Monday:	10:30 A. M., Exercises of the undergraduates representing the branches of the University. 4:00 P. M., Military exercises and drill. 8:30 P. M., Champion debate between the Phi Kappa and Demosthenian Societies.
June 16, Tuesday:	10:30 A. M., Business meeting of the Alumni Society. 12 M., Oration before the Alumni Society. 4:30 P. M., Junior orations and delivery of Sophomore cup.
June 17, Wednesday:	Commencement Day. Close of the 114th annual session.

HISTORICAL

The University of Georgia was chartered by the General Assembly of the State, January 27, 1785. The charter is entitled "An act for the more full and complete establishment of a public seat of learning in this State," and its preamble, to use the language of a distinguished president of the institution, "would do honor to any legislature, and will stand a monument to the wisdom and patriotism of those who framed and of those who adopted it."

The independence of Georgia, as a State, had just been acknowledged, and, says the preamble, "It should be among the first objects of those who wish well to the national prosperity to encourage and support the principles of religion and morality, and early to place the youth under the forming hand of society, that, by instruction, they may be moulded to the love of virtue and good order."

Founded with the purpose thus indicated, the University was possessed only of "an unproductive and, for the most part, uninhabited tract of land," and it was not until July 6, 1801, that George Walton, Abraham Baldwin, John Milledge, and Hugh Lawson, acting as a committee of the Senatus Academicus, selected the historic site on which the parent institution at Athens now stands. During that year the University was opened.

The general scheme of organization and the course of study, after the fashion of the English colleges of that time, provided for the single collegiate degree of "Bachelor of Arts." Literature, with the so-called disciplinary studies, constituted the entire curriculum. For Science, as it is recognized to-day, no provision was made.

For more than half a century the history of the University was the history of Georgia. Many of those who afterwards added to the distinction of the State in peace and in war received their training here during this period.

But no college thus designed could keep pace with the growth and diffustion of knowledge. The expanding intelligence of the nineteenth century demanded wider areas of culture and knowledge. Science added new fields to human thought. With new knowledge came the impelling force which planted scientific and technical schools throughout the world. In July, 1862, the Congress of the United States granted to each of the States a munificent donation of public lands for the purpose of establishing a college in which science and its application to agriculture and the mechanic arts should be taught. The funds arising from the sale of Georgia's quota of the land scrip were transferred by the State to the Trustees of the University of Georgia, May 1, 1872, and the Trustees at once established the Georgia State College of Agriculture and the Mechanic Arts, as a coördinate department of the institution at Athens. In accordance with the act of Congress, the "leading object" in this college is, "without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts."

After this first step had been taken toward broadening the scope of the University's activity, other developments followed rapidly.

In August, 1867, the Lumpkin Law School, at Athens (incorporated 1859), was merged into and became the Law Department of the University. In October, 1872, the North Georgia Agricultural College became a department of the University through a contract made by the local trustees, and in July, 1873, by arrangement with the local trustees of the Georgia Medical College (founded in 1829), at Augusta, this institution became the Medical Department of the University.

By the Constitution of Georgia (adopted 1877), the appropriation of public funds for education other than "the elementary branches of an English education" was permitted to the University only. The following institutions have been established by legislative enactments as departments or "branches" of the University and placed under general control of its Board of Trustees. Each is maintained in whole or in part by annual appropriations from the State Treasury: The Georgia School of Technology, at Atlanta, established 1885; the Georgia Normal and Industrial College for Girls, at Milledgeville, established 1889; the Georgia Industrial College for Colored Youths, near Savannah, established 1890; the State Normal School, near Athens, established 1895; the South Georgia Normal College, at Valdosta, established 1906.

The growth of the University at Athens may be seen from the number of departments which have been established there in recent years: the School of Pharmacy, established in 1903; the Summer School, authorized by an act of the General Assembly in 1897, and put on a permanent foundation by an appropriation of the General Assembly in 1904; the School of Forestry, established in 1906 through the generous aid of Mr. George Foster Peabody; the School of Education, established in 1908; the School of Commerce, established in 1912.

In the summer of 1906, the Legislature established the Georgia State College of Agriculture and directed the Governor to appoint Trustees charged with its management. At the same session of the Legislature an industrial and agricultural school was established in each of the eleven congressional districts of the State as a branch of this college and under the general supervision of its board of trustees.

By the gradual addition of many different schools and departments the University has been able to incorporate with the liberal training of Franklin College that scientific and technical education necessary to supplement it, and it is now, so far as the Trustees have been able to carry out their plans, "a place where students can be trained for any and every respectable path of life, and where, at the same time, the interests of higher education and science are cared for." Thus the "foundation of the fathers," a simple college with a close curriculum, has grown to be a complex university, planned upon a broad and philosophic system, where literature and science are taught, and liberal and technical education supplied.

SUPPORT

The University is supported partly by taxation of the people of the State, partly by the income from federal grants, and partly by income from private gifts.

The federal government has made three grants for the support of the College of Agriculture and the Mechanic Arts: the original land grant of 1868; the grant of 1887 for the support of agricultural experiment stations in connection with the College of Agriculture; and the supplementary grant of 1890.

In 1895 the State appropriated $29,000 for the erection and equipment of Science Hall. Since that time it has appropriated money for five other buildings, adding greatly to the efficiency of the institution. For maintenance the State pays the sum of $52,500 annually, and has added an annual appropriation of $5,000 for the Summer School. In addition, the sum of $60,000 is appropriated annually for the maintenance of the State College of Agriculture; with $40,000 for Extension Work, $2,500 for the Farmers' Institutes, and $3,000 for the manufacture of hog cholera serum.

The most considerable gifts that have come to the University are:

The original donation of 35,000 acres of public lands by the State.

The donation of 660 acres of land to the University by Governor John Milledge, on which a part of the city of Athens now stands.

The Moore College building, costing $25,000, the gift of the city of Athens.

The Charles F. McCay fund, available about 1975, estimated to amount ultimately to several million dollars.

The Charles McDonald Brown fund of $50,000, the gift of Governor Joseph E. Brown, for aid of students. This fund now amounts to $169,179.80.

The William Terrell fund of $20,000 for the support of a chair of Agricultural Chemistry.

The Library building, costing $50,000, the gift of George Foster Peabody, of New York.

The Alumni fund, amounting to nearly $60,000.

A fund of approximately $30,000, contributed by friends of the University (1906) for the purchase of land for enlarging the campus.

The Denmark fund of $4,000, given by the late Brantley A. Denmark in memory of his son, William Starke Denmark.

A gift of $25,000 from the city of Athens (1908) for the development of the greater campus.

A gift of $40,000 from the Peabody Fund, for the erection of a building, to be known as the "George Peabody Hall," for the School of Education.

A gift of $12,500 from the Phelps-Stokes Fund, for the permanent endowment of a Fellowship.

A gift of $600 by Mr. Preston S. Arkwright ('90) for the same purpose and under the same conditions as those of the Charles McDonald Brown Fund.

A gift of $1,000 by the family of Mr. Bert Michael (1912) for the establishment of a scholarship in the Junior class.

GOVERNMENT

By act of the General Assembly, approved August 23, 1889, the government of the University is vested in a Board of Trustees, appointed by the Governor for a term of eight years, and confirmed by the Senate. The Board consists of one member from each Congressional District of the State, four from the State at large, and two from the city of Athens; and the following are ex-officio members: the Governor of Georgia, the Chairman of the Board of Trustees of the North Georgia Agricultural College, the Chairman of the Board of Trustees of the School of Technology, the Chairman of the Board of Directors of the Georgia Normal and Industrial College, the President of the Commissioners of the Industrial College for Colored Youths, the Chairman of the Board of Trustees of the College of Agriculture, the Chairman of the Board of Trustees of the State Normal School, the President of the Board of Directors of the Medical College.

The immediate control and management of each of the departments of the University situated elsewhere than at Athens is entrusted (subject to general control by the University Trustees) to a "Local Board" or "Commission," of which the number of members, mode of appointment, and terms of office vary.

The University Trustees meet in stated session on the Thursday preceding the Commencement Sunday, and at other times, at their pleasure.

The present organization of the Board is as follows:

HIS EXCELLENCY, GOV. JOSEPH M. BROWN, Atlanta, ex-officio.

GEORGE F. GOBER, Marietta,
From the State at Large Term Expires Aug. 13, 1915.

HENRY D. McDANIEL, Monroe,
From the State at Large Term Expires Aug. 13, 1917.

WILLIAM E. SIMMONS, Lawrenceville,
From the State at Large Term Expires Aug. 13, 1919.

HAMILTON McWHORTER, Athens,
From the State at Large Term Expires Aug. 13, 1913.

SAMUEL B. ADAMS, Savannah,
1st Congressional District Term Expires Aug. 13, 1913.

BYRON B. BOWER, Bainbridge,
2nd Congressional District Term Expires Aug. 13, 1913.

J. E. HAYES, Montezuma,
3rd Congressional District Term Expires Aug. 13, 1913.

HENRY R. GOETCHIUS, Columbus,
4th Congressional District Term Expires Aug. 13, 1919.

CLARK HOWELL, Atlanta,
5th Congressional District Term Expires Aug. 13, 1919.

AUGUSTUS O. BACON, Macon,
6th Congressional District Term Expires Aug. 13, 1917.

J. LINDSAY JOHNSON, Rome,
7th Congressional District Term Expires Aug. 13, 1917.

JOHN T. NEWTON, Madison,
8th Congressional District Term Expires Aug. 13, 1919.

HOWARD THOMPSON, Gainesville,
9th Congressional District Term Expires Aug. 13, 1915.

BOWDRE PHINIZY, Augusta,
10th Congressional District Term Expires Aug. 13, 1915.

JOHN W. BENNETT, Waycross,
11th Congressional District Term Expires Aug. 13, 1915.

DUDLEY M. HUGHES, Danville,
12th Congressional District Term Expires Aug. 13, 1919.

JAMES WHITE, Athens,
Resident Trustee Term Expires Aug. 13, 1915.

HARRY HODGSON, Athens,
Resident Trustee Term Expires Aug. 13, 1917.

GEORGE FOSTER PEABODY, New York, Life Trustee,
By special act of the General Assembly.

NATHANIEL E. HARRIS, Macon,
Chairman of the Board of Trustees of the School of Technology. Ex-officio.

THEODORE E. ATKINSON, Newnan,
Chairman of the Board of Directors of the Georgia Normal and Industrial College. Ex-officio.

PETER W. MELDRIM, Savannah,
President of the Board of Commissioners of the Industrial College for Colored Youths. Ex-officio.

W. B. McCANTS, Winder,
President of the Board of Trustees of the North Georgia Agricultural College. Ex-officio.

THOMAS J. SHACKELFORD, Athens,
Chairman of the Board of Trustees of the State Normal School. Ex-officio.

JAMES J. CONNER, Cartersville,
Chairman of the Board of Trustees of the College of Agriculture. Ex-officio.

ENOCH H. CALLAWAY, Augusta,
President of the Board of Directors of the Medical College. Ex-officio.

HENRY D. McDANIEL------------------------------Chairman.

THOMAS W. REED--------------------Secretary and Treasurer.

PRUDENTIAL COMMITTEE—
Messrs. McWhorter, Hodgson, White.

FINANCE COMMITTEE—
Messrs. Simmons, White, Callaway.

COMMITTEE ON HONORARY DEGREES—
Messrs. Adams, Conner, and the Chancellor.

COMMITTEE ON BROWN FUND—
Messrs. McWhorter, Bennett, White.

PROPERTY COMMITTEE—
Messrs. Gober, Newton, Hodgson.

INSURANCE COMMITTEE—
Messrs. Simmons, McWhorter, Shackelford.

LIBRARY COMMITTEE—
Messrs. Bower, Shackelford, Goetchius.

THE UNIVERSITY AT ATHENS

I. **Franklin College.** (The College of Arts).—Established 1801, offering the Degree of Bachelor of Arts, and including:

1. General Courses in the Liberal Arts.
2. Special Courses.

II. **The Georgia State College of Agriculture and the Mechanic Arts.** Established 1872, offering the Degree of Bachelor of Science, and including the following:

(a) In the College of Science and Engineering:

1. The General Science Course.
2. The Civil Engineering Course.
3. The Electrical Engineering Course.

(b) In the College of Agriculture:

4. The Full Agricultural Course.
5. The Forest Engineering Course.
6. The One-year Agricultural Course.
7. The Winter Course in Agriculture.
8. The Experiment Station (at Experiment).
9. The Farmers' Institutes.

III. **The Graduate School.**—Offering the following Degrees:

1. Master of Arts.
2. Master of Science.
3. Civil Engineer.

IV. **The Law Department.**—Offering the degree of Bachelor of Law. A two years' course.

V. **The University Summer School.**—Founded in 1903. Five Weeks' Session, offering courses in

1. Common School Branches.
2. Pedagogy and Related Subjects.
3. High School Studies.
4. Selected Studies.

VI. **The School of Pharmacy.**—Offering the Degree of Graduate in Pharmacy—A two years' course.

VII. **The School of Education.**—Established 1908.

VIII. **The School of Commerce.**—Established 1912.

THE UNIVERSITY FACULTY

DAVID CRENSHAW BARROW, LL.D., Chancellor.

ALFRED AKERMAN, A.B., M.F.,
Professor of Forestry.

SAMUEL CALDWELL BENEDICT, M.D.,
Dean of the School of Pharmacy, and Professor of Materia Medica.

HOMER VAN VALKENBURGH BLACK, Ph.D.,
Associate Professor of Chemistry.

JAMES CAMAK BLOOMFIELD, M.D.,
Lecturer on Medical Jurisprudence.

WILLIS HENRY BOCOCK, A.M., LL.D.,
Dean of the Graduate School, and Milledge Professor of Ancient Languages.

ROBERT PRESTON BROOKS, B.A. (Oxon), Ph.D.,
Associate Professor of Georgia History and Sociology.

DUNCAN BURNET,
Librarian.

WILLIAM MILLS BURSON, D.V.M.,
Professor of Veterinary Science.

JOHN PENDLETON CAMPBELL, Ph.D.,
Professor of Biology.

HUBERT BEDLER CARPENTER, B.S.A.,
Instructor in Animal Husbandry.

ANDREW JACKSON COBB, A.B., B.L.,
Lecturer on Constitutional Law and Legal Procedure.

ROY EMERSON CURTIS, Ph.D.,
Associate Professor of Applied Economics.

URIAH HARROLD DAVENPORT, B.S.,
Associate Professor of Electrical Engineering.

ROBERT J. H. DeLOACH, A.M.,
Professor of Cotton Industry.

MARION DERELLE DuBOSE, A.M.,
Adjunct Professor of English Language and Teutonic Philology.

JOHN RICHARD FAIN, B.S.,
Professor of Agronomy.

LUDWIG REINHOLD GEISSLER, Ph.D.,
Associate Professor of Psychology.

THOMAS FITZGERALD GREEN, B.L.,
Professor of Law.

ERNEST LEE GRIGGS, (graduate V. M. I.),
Associate Professor of Civil Engineering and Drawing.

LEROY COLLIER HART, B.S.E.E.,
Professor of Farm Mechanics.

LINVILLE LAURENTINE HENDREN, Ph.D.,
Professor of Physics and Astronomy.

WILLIAM DAVIS HOOPER, A.M.,
Professor of Latin.

MILTON PRESTON JARNAGIN, B.S.,
Professor of Animal Husbandry.

WILLIAM RICHARD KENDRICK, First Lieutenant, 17th U. S. Infantry, Commandant of Cadets.

JOHN CHRISTIAN KOCH, B.S.C.E.,
Adjunct Professor of Civil Engineering.

JOSEPH LUSTRAT, Bach. ès Lett.,
Professor of Romance Languages.

THOMAS HUBBARD McHATTON, Sc.D.,
Professor of Horticulture.

JOHN HANSON THOMAS McPHERSON, Ph.D.,
Professor of History and Political Science, and Lecturer on Roman Law.

ROBERT LIGON McWHORTER, A.M.,
Adjunct Professor of Latin and Greek.

ERALBERT TALMADGE MILLER, B.S.C.E.,
Instructor in Physics.

JOHN MORRIS, A.M.,
Professor of English Language and Teutonic Philology.

SYLVANUS MORRIS, A.M., B.L.,
Dean of the Law Department, and Professor of law.

ROBERT EMORY PARK, A.M., Litt.D.,
Professor of Rhetoric and English Literature.

WILLIAM OSCAR PAYNE, A.M.,
Associate Professor of History and Political Science.

HOWELL BENAJAH PEACOCK, B.S.,
Instructor in Physical Education.

ROBERT SPENCER POND, Ph.D.,
Adjunct Professor of Mathematics.

JOHN MOORE READE, Ph.D.,
Professor of Botany.

THOMAS WALTER REED, A.M.,
Registrar.

HENRY HIRO ROTHE, D.V.M.,
Instructor in Veterinary Science.

SANDFORD MEDDICK SALYER, A.B.,
Adjunct Professor of Rhetoric and English Literature.

STEADMAN VINCENT SANFORD, A.B.,*
Junior Professor of Rhetoric and English Literature.

CHARLES MERCER SNELLING, A.M., Sc.D.,
Dean of the University, and Professor of Mathematics.

ANDREW MacNAIRN SOULE, B.S.A., Sc.D.,
President of the State College of Agriculture and the Mechanic Arts, and Dean of the College of Agriculture.

ROSWELL POWELL STEPHENS, Ph.D.,
Associate Professor of Mathematics.

JOSEPH SPENCER STEWART, A.M.,
Professor of Secondary Education.

CHARLES MORTON STRAHAN, C. and M.E., Sc.D.,
Professor of Civil Engineering.

WILLIAM TELFORD TURK, A.B.,
Instructor in Romance Languages.

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* Absent on leave.

CORNELIUS AUGUSTUS WELLS, M.S.,
Instructor in Chemistry.

HENRY CLAY WHITE, Ph.D., Sc.D., D.C.L., LL.D.,
Professor of Chemistry, and Terrell Professor of Agricultural Chemistry.

CHARLES ANDERSON WHITTLE, A.B.,
Editor-Librarian, College of Agriculture.

ROBERT CUMMING WILSON, Ph.G.,
Professor of Pharmacy.

THOMAS JACKSON WOOFTER, A.M., Ph.D.,
Dean of the School of Education, Professor of Philosophy and Education, and Superintendent of the Summer School.

WILLIAM ARCHER WORSHAM, JR., A.M.,
Professor of Agricultural Chemistry.

POPE FURMAN BROCK, A.B.,
Tutor in Rhetoric and English Literature.

ROSS RENFROE CHILDS, B.S.A.,
Tutor in Agronomy.

DAVID ROBERT CUMMING, A.B.,
Tutor in Mathematics.

CLAUDE M. KIGER, B.S.A.,
Tutor in Horticulture.

REUBEN WINFIELD ALLEN, A.B.,
Fellow in Chemistry.

PAUL LOVEJOY HUDSON,
Fellow in Biology.

GRADY PADGETT,
Fellow in Physics.

Student Assistants.

R. T. GOODWYN, Civil Engineering.

C. POPE, Civil Engineering.

L. G. PROCTOR, Farm Mechanics.

E. RAGSDALE, Farm Mechanics.

E. I. RANSOME, Physics.

B. H. STONE, Forestry.

C. H. STONE, Physics.

P. TABOR, Botany.

W. B. WILSON, Farm Mechanics.

LIBRARY STAFF.

MILDRED R. MELL, First Assistant.

JOSEPH H. MARSHBURN, Reference Assistant.

EUNICE COSTON, Assistant Cataloguer.

CHARLES H. STONE, Graduate Assistant.

Two student assistants.

DEPARTMENT OF AGRICULTURAL EXTENSION.

GUY WITSOTZKEY FIROR, B.S., M.S., Secretary of Extension Department.

JAMES PHILANDER CAMPBELL, (Coöperation U. S. D. A.), State Agent in Extension Demonstration work.

JAMES WILLIAM HART, (Coöperation U. S. D. A.), Professor, Dairy Husbandry.

JOHN L. BISHOP, B.S.A., M.S., Adjunct Professor, Animal Husbandry.

LEONIDAS MYERS CARTER, Professor of Soil Chemistry.

GEORGE A. CRABB, B.S.A., Adjunct Professor of Agronomy.

DAVID D. LONG, B.S.A., Soil Expert in State Survey.

LOY EDMUND RAST, B.S., Instructor in Agronomy.

ROBERT S. HOLLINGSHEAD, A.B., Adjunct Professor of Soil Chemistry.

JOHN WILLIAM FIROR, B.S., Adjunct Professor of Horticulture.

LEROY LUCIEN JONES, B.S., Instructor in Poultry Husbandry.

MARY E. CRESWELL, (Coöperation U. S. D. A.), In Charge of Girls' Clubs.

Special Lecturers.

BENJAMIN ALBERT CRANE, B.S., Cotton Grading.

ROBERT HATTON LOVEJOY, B.S., B.L., Forest Law.

OTHER OFFICERS.

SARAH COBB BAXTER, Secretary to the Chancellor.

ETHEL REESE, Secretary to the President.

PHARES OBADIAH VANATTER, Superintendent of Field Demonstration.

AMBROSE PENN WINSTON, Foreman of the College Farm.

FACULTY COMMITTEES, 1912-13.

Absences.—Payne, Stephens, Black, DuBose, Commandant.

Alumni Bulletin.—Strahan, S. Morris, DeLoach, McWhorter.

Alumni Catalogue.—Reed, Stewart, DuBose, McWhorter, Worsham, Black, DeLoach, Miller.

Alumni Positions.—Woofter, Park, Strahan, Stewart, DeLoach.

Athletics.—J. Morris, Jarnagin, Hendren, Worsham.

Chapter Houses and Dormitories.—Park, Strahan, Lustrat, Dean.

Coördination with Medical College.—White, Campbell, Jarnagin, Benedict, Davenport, Lustrat, Hendren.

Courses as Given.—Snelling, Soule, Bocock, Campbell, J. Morris, Woofter, Fain.

Curriculum.—McPherson, Hooper, Bocock, White, Snelling, Woofter, Soule, J. Morris, Campbell.

Delinquent Students.—Snelling, Soule, Bocock, Park, Strahan, J. Morris, Hooper, Fain, Payne.

Entrance Examinations and Accredited Schools.—Hooper, Stewart, DuBose, Hart, Bocock, Fain, Park, Payne, Lustrat, Reade, Hendren, Stephens, Salyer, McWhorter.

Extension.—Soule, Stewart, Woofter, Firor, Koch, Phil. Campbell.

Forms and Ceremonies.—Commandant, S. Morris, McHatton, Reed, Pond.

Graduate Courses.—Bocock, Fain, Park, Campbell, Lustrat, Strahan, Snelling, Soule, McPherson.

Grounds and Buildings.—Griggs, Bocock, McHatton.

Gymnasium.—Worsham, Brooks, Wilson.

Library.—Burnet, Hooper, Reade.

Night Meetings.—Akerman, Woofter, Stewart, Reade, Pond, Brooks.

Promotion and Publicity.—Stewart, Whittle, Davenport, Hart.

Publications.—Salyer, Reade, McWhorter, Whittle, Reed.

Register and Announcement.—Hooper, Stewart, Wilson, Salyer, Stephens, Akerman.

Registrar.—Reed.

Rhodes Scholarship.—Bocock, Chancellor.

Schedule.—Lustrat, Stephens, Fain.

Self Help.—Fain, Stephens, DeLoach, Snelling, Park, Davenport.

Social Life of Students.—McHatton, Bocock, Hendren, Stephens, Snelling.

Secretary.—Hooper.

Physical Director.—J. Morris.

BUILDINGS AND GROUNDS

The University Campus comprises an area of 132 acres located in the heart of the city of Athens. In addition to this and contiguous to it lies the University Farm, extending from Lumpkin Street to the Oconee River, comprising 830 acres.

The buildings on the University Campus are:

1. **Old College** (1801, remodeled 1908). Dormitory, accommodating fifty students.

2. **Agricultural Hall** (formerly Philosophical Hall, 1807). Road Extension Laboratory.

3. **New College** (1823, rebuilt in 1832, after destruction by fire). Dormitory, accommodating seventy students. The first floor is occupied by the Armory and the offices of the Commandant of Cadets.

4. **Demosthenian Hall** (1824.). The Demosthenian Literary Society.

5. **The Chapel** (1831). Used for morning prayers and also as an assembly hall.

6. **Phi Kappa Hall** (1834). The Phi Kappa Literary Society.

7. **Moore College** (1874.) The Schools of Physics, Civil Engineering, and Electrcial Engineering.

8. **Denmark Hall** (1901). Coöperative Dining Hall, accommodating two hundred students.

9. **Candler Hall** (1901). Dormitory, accommodating eighty-four students.

10. **Academic Building.** Remodeled (1904) by combining the old Library (1859), with the Ivy Building (1831). Administrative offices, and the Schools of Mathematics, Greek, Latin, History, Rhetoric and English Literature, English Language and Teutonic Philology, Romance Languages, Philosophy and Education, Secondary Education, and Law.

11. **The Library** (1903). This building was the gift of Mr. George Foster Peabody, of New York. It contains a fire-proof stack room, large enough to store 100,000 books, and in addition the offices of the librarian and assistants, cataloguing room, reference room, general reading room, and lecture rooms.

12. **Terrell Hall** (1904). Built to replace "Science Hall," totally destroyed by fire in 1903, and named in honor of Dr. William Terrell, of Hancock County, Georgia, who, in 1854, endowed the professorship of agricultural chemistry in the University. The Schools of Chemistry and Pharmacy.

13. **LeConte Hall** (1905). Named in honor of Dr. John LeConte, Professor of Physics, 1846-1855, and Dr. Joseph LeConte, Professor of Geology, 1852-1856. The Schools of Biology and Botany.

14. **Crawford W. Long Infirmary** (1907). Named in honor of Dr. Crawford W. Long, of the class of 1835, the discoverer of Anesthesia.

15. **The New Agricultural Hall** (1907). The State College of Agriculture.

16. **Farm Mechanics Laboratory** (1912).

17. **George Peabody Hall** (1913). The School of Education.

In addition to the buildings named above the recently acquired extension of the campus contains over fifty cottages, of which as many as are needed are rented to students for use as dormitories.

EQUIPMENT.

The Chemical Laboratories are in Terrell Hall. This building is occupied exclusively by the Schools of Chemistry and Pharmacy. The laboratory for beginners in Chemistry is on the ground floor, equipped with desks and lockers for 110 students. Two laboratories for more advanced students, accommodating respectively 60 and 24 students, the laboratory for Physical Chemistry, accommodating 24 students, and three smaller laboratories for research, are on the third floor. There are three lecture rooms, one (seating capacity 32) on the ground floor, one (seating capacity 150) on the second floor, and one (seating capacity 80) on the third floor. Offices, store rooms, balance rooms, museum, and apparatus rooms, private laboratories, a departmental library, and other accommodations for the School of Chemistry, are provided in the building. The laboratories are well lighted and ventilated, and conveniently supplied with gas, water, electricity, and fume closets. A considerable supply of modern apparatus and of chemicals is now on hand, and additions are made annually to the equipment.

The Physical Laboratories are located in Moore College. The laboratories for beginners are on the first floor, and consist of two rooms, 35 × 35 feet each, with desks and tables for thirty students. The equipment of these laboratories has been greatly increased by the recent purchase of modern apparatus for experimental work in Mechanics, Sound, Heat, and Light. The laboratory for electrical measurements is on the first floor, and is 20 × 45 feet. It is supplied with alternating and three-phase, 60-cycle, 120-volt currents from the city mains, and with alternating and direct currents from dynamos and storage batteries. The equipment of this laboratory is modern. Two rooms, 35 × 35 and 20 × 35 respectively, are well filled with illustrative and experimental apparatus. Two large lecture rooms, with seating capacities for forty and eighty students, respectively, are situated on the second floor. All laboratories and lecture rooms are supplied with gas, water, and direct, alternating, and polyphase electric currents.

For description of the shops and the Dynamo Laboratory, see Electrical Engineering Laboratories, below.

The Astronomical Observatory on the roof of Moore College, consists of a room 10 × 10 feet, in which is a 3½-inch telescope, equatorially mounted and driven by clock-work. The Observatory is also equipped with two sextants, an alt-azimuth instrument, a celestial globe, and several good star maps and charts.

The Civil Engineering Laboratory, in Moore College, includes a drawing-room (50 × 35), accommodating sixty students, instrument room, and model room. The stock of models, charts, diagrams, and other illustrative materials is large and complete; the engineering instruments are of the most approved makes, and include all those necessary for ordinary engineering operations; a large Riehle testing-machine is in place for testing the strength of materials.

The Biological (Zoölogical) Laboratories occupy the basement and first floor of LeConte Hall together with a Museum on the second floor. The lecture room is large and conveniently arranged, and is equipped with stereopticon and large collection of slides illustrating most of the lines of work undertaken. There are special laboratories for General Zoölogy, Anatomy, Histology, Physiology, and in addition a dark-room and a photographic room equipped with modern apparatus for micro-photography. All of these laboratories are supplied with the most essential appliances for the work done therein, and the equipment is being increased as rapidly as funds will permit. The museum, while not large, has been selected with reference to the courses to be illustrated, and is of great service in connection with all of these courses.

The Botanical Laboratories are on the second floor of LeConte Hall. Here are provided a general laboratory, well lighted, commodious, and furnished for the work of beginners; a laboratory for Plant Pathology and Bacteriology, equipped with culture room, sterilizers, incubator, microtomes, and other special apparatus; a laboratory for Plant Physiology and Photography, which is a glass house on the roof provided with special physiological apparatus and equipped for photo-micrography; an Herbarium; a lecture room, and a small store-room.

The Psychological Laboratory occupies about eight rooms on the first floor of George Peabody Hall and is equipped with the latest psychological instruments for qualitative and quantitative studies of such mental phenomena as the senses, the feelings, attention, memory, etc. Every room can be brought into connection with every other room by a system of electric wiring. All rooms are supplied with alternating electric current and gas, and most of them with city water and sinks. One room can be used for a photographic dark-room, while two others will be devoted especially to research work.

The Electrical Engineering Laboratories. The Dynamo Laboratory of the Electrical Engineering Department is in the basement of the Moore College, and is equipped with a 10 H. P. steam engine and boiler; an 8 H. P. gas engine; a 10 H. P. 220-volt, three-phase, electric motor; a 7½ K. W., double current generator; a 5 K. W. direct current generator, all belted to a common shaft; two Thompson-Houston arc light generators; one Brust arc light generator; one Foos "Electric Special" gasoline engine of 4 H. P. output, operating a 3 K. W. direct current generator; one 2 H. P. 110-volt, three-phase induction motor; one 1 H. P. 110-volt, three-phase induction motor; one 1 H. P. gas engine; two small experimental dynamos; one small self-exciting alternator; one 15 H. P., series, constant potential, railway motor; 12 chloride accumulators; a plug switchboard to which all laboratory and lecture desk leads are connected; two lamp banks of fifty lamps each; one water cooled Prony Brake of 10 H. P. capacity; stationary and portable ammeters, voltmeters, and wattmeters of various types; one tachometer and several speed counters; two D. C. arc lamps; one A. C. flaming arc lamp; water rheostats, resistance frames, etc. Three-phase 110- and 220-volt circuits from the city mains are available at all times.

The workshop on the second floor contains wood and metal working lathes, rip and cut-off saw, milling machine, grindstone, emery wheel, etc., in addition to a full equipment of bench and shop tools for ten men. This machinery is driven by a three-phase induction motor from the city mains.

The water power plants of the Athens Railway and Electric Co., at Mitchell's Bridge and Barnett Shoals, their steam turbine plant and substation in the city, their car barn and shop, and the general system of distribution and utilization are, through the courtesy of the Superintendent, available for study and inspection.

The Agricultural Laboratories are fully described under the statement of the College of Agriculture.

The Pharmaceutical Laboratories are in Terrell Hall, and are supplied with all necessary equipment for giving thorough instruction in Pharmacy.

ADMISSION.

Entrance to the University may be secured by two methods: (a) by examination, (b) by certificate.

Entrance by Examination.

Examinations are held at the University in June and September of each year. These are in writing, and two hours are allowed to each unit upon which examination is offered. Examinations will be offered in each of the entrance subjects as requested, according to a schedule, on June 11, 12, 13, and on September 15, 16, 17, 18. All students planning to enter by examination must arrange to be present upon these dates, since other dates can be arranged only by special action of the faculty. It is well to take as many as possible of the examinations in June and the remainder in September. By this plan the candidate will know what additional work he will have to do during the summer. Special arrangements have been made to hold examinations at the end of the Summer Coaching School for work taken in this school. Upon request, a sample set of questions in the subjects desired will be mailed to Principals who may wish to hold the June examinations for candidates who cannot come to the University at that time. The papers will be sent to the University for grading.

Entrance by Certificate.

Each applicant for entrance by certificate must remember that there are two things required of him. He must have had the work required by the University for entrance. He must present a satisfactory certificate to that effect. The certificate to be satisfactory must have the following qualities:

1. **It must be official.** It must be made out and signed by the superintendent or principal of the school.

2. **It must be explicit.** For each subject or course it must show text books used, the amount of ground covered, the length of each recitation, the length of the course in weeks, the number of recitations a week and the grade secured. It must also state whether or not the applicant is a graduate. The University has adopted the uniform certificate of the Commission on Accredited Schools of the Association of Colleges and Secondary Schools of the Southern States, which is also uniform with that of the North Central Association. No other form, therefore, will be accepted. Diplomas need not be presented.

3. **It must be complete.** Many errors occur in the copying of school records. Sometimes it happens that the omissions are serious enough to prevent a student's entrance, and they are almost sure to result in conditions. The applicant must remember that the University will not credit him with anything not certified on his certificate and he must see that the certificate is correct before it is sent for credit. Blank certificates are sent in May to all the Georgia Accredited High Schools in time to have the certificates filled out before the close of school. This is the time for the graduate to see that his certificate is on file in the school office. Later he can have it sent to the institution he decides to enter. Blanks will also be sent on application. Certificates should be sent in at

the earliest possible date. **The applicant should not wait to bring them with him when he comes for registration. The committee should have time to note errors or to notify the applicant of deficiencies. Attention to this request will save much inconvenience and possibly expense.** No correction of any certificate will be accepted later than the beginning of the second term of residence.

4. Certificates will not be accepted which cover less than one year's attendance in the school issuing the certificate. Before certifying to the work done in his school, the principal should satisfy himself of the previous high school training of the pupil, if a part was done in another school. Subjects in which an examination has been passed for admission to the school, or for which regular certificates from recognized schools were received, may be included in the certificate, provided the official records from such school or of the examinations are given. Work done in the grammar grades or high school reviews of such work cannot count as units of high school training.

By the end of February of each year notice will be sent to the principal showing the college standing of all his students who are admitted by certificate to the colleges which have adopted the University system.

5. The certificate should be mailed directly to the University of Georgia, care of the Entrance Committee, by the school official authorized to sign it.

6. It must come from an approved source as indicated below.

CLASSES OF CERTIFICATES ACCEPTED FOR ENTRANCE TO A DEGREE COURSE.

The following certificates will be accepted at their face value, to be estimated in standard unit terms, toward entrance to degree courses, and no others will be honored except as provided in later paragraphs:

1. **High School Certificates.** In Georgia, a certificate which shows that the candidate is a **graduate** of a secondary school which has been **accredited** by the University upon the recommendation of the Professor of Secondary Education, or that he has credit for fourteen units. In New York, a Regent's certificate. In other states, a certificate from a school that has been accredited by the Southern Commission or the North Central Association or from a school which has been accredited by the state university of the particular state. An appplicant presenting a certificate from a school outside the state and not on the Southern or North Central lists must supply the Entrance Committee with official evidence that the school is entitled to the certificate privilege at the state university of the state in which the school is located.

2. Certificates from preparatory schools recognized as above and from normal schools of approved standing.

3. Certificates from College Entrance Examining Boards, such as that of the Middle States and Maryland.

Exceptions in Special Cases.

In the School of Pharmacy, from any high school showing two years of work the certificate will be accepted at its face value towards admission to this School only.

In the case of a student who has completed at some other college a full year of collegiate work, the Entrance Committee will honor a high school certificate through that college at its face value, even though it is not from an accredited school.

CONDITIONS.

It often happens that an applicant's credentials show that he falls a little short of meeting the full entrance requirements. The applicant may be admitted subject to making up these deficiencies, which are called "conditions." The several colleges or departments allow two conditions, but the two conditions are not allowed in the same group except in the case of foreign languages.

Entrance conditions must be removed before the student enters the Junior class by passing off the conditioned units by examination, at the time of the stated annual entrance examinations or at the term examinations, or by doing additional work in the University, but college work thus offered will not be counted towards a degree. A student who has completed a collegiate course in any subject is not eligible for entrance examinations upon the same subject unless it is a fixed requirement for admission to the college or department in which he is registered.

Entrance conditions in Greek, French, and German may be made up in the University in classes provided for that purpose. No other conditions are provided for. The University **maintains no preparatory department.** Applicants should not come to the University expecting to prepare for entrance.

Students in the Law department who are applicants for the degree of Bachelor of Law must remove entrance conditions before entering the senior class, unless the Dean allows an additional course in the academic department to satisfy a condition.

At the beginning of his first year the student will file with the head of his college a definite plan for the removal of his entrance conditions. The Dean will assign to each student under him having entrance conditions at the beginning of the Sophomore year such college courses as may be deemed a fair equivalent for entrance conditions.

UNITS.

The requirements for admission are stated in terms of **units.**

A unit represents a year's study in any subject in a secondary school, constituting approximately a **quarter** of a full year's work. This statement is designed to afford a standard of measurement for work done in secondary schools. It takes the four-year high school course as a basis and assumes that the length of the school year will be approximately thirty-six weeks, that a period is at least forty minutes, and that the study is pursued for four or five periods a week; but, under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than one hundred and twenty sixty-minute hours, or their equivalent. Schools organized on a different basis can, nevertheless, estimate their work in terms of this unit. Less than forty minutes for recitation will reduce the unit value. The subject may cover more than one year according to the pleasure of the teacher in arranging courses. The time element counts on the certificate as well as the quantity of work. As a general rule, four units a year is as much as the average pupil can prepare adequately at one time. Two hours in manual training or other laboratory or industrial work is equivalent to one hour in the class room.

Units Recognized by the University.

Each subject named below is valued at a specific number of units if the proper time has been devoted to its preparation, but its value cannot rise above that number of units although additional time may have been given to it.

English	1, 2, 3, or 4 units
American History or American History and Civil Government	1 unit
Ancient History (Greek and Roman) and Medieval History to 814 A. D.	1 unit
Medieval and Modern History from 814 A. D. to the present (For the present, General History may be counted as a unit, but not in addition to Ancient or Medieval and Modern History.)	1 unit
English History	1 unit
Algebra (to quadratics)	1 unit
Algebra (quadratics and beyond)	½ unit
Geometry (plane)	1 unit
Geometry (solid)	½ unit
Trigonometry	½ unit
Latin	1, 2, 3, or 4 units
Greek	1, 2, or 3 units

German		1, or 2 units
French		1, or 2 units
Spanish		1, or 2 units
(Not less than one unit of any foreign language will be accepted.)		
Physics		½ or 1 unit
Chemistry		1 unit
Physical Geography		½ or 1 unit
Zoölogy		½ or 1 unit
Botany		½ or 1 unit
Physical Geography Zoölogy Botany Physiology	For the present any two of these may be counted together as	1 unit
Biology		1 unit
Agriculture		1 unit
Free-hand Drawing Manual Training Commercial subjects	The Entrance Committee may, after investigating each claim, grant a total credit of not to exceed	3 units

REQUIREMENTS FOR ENTRANCE TO THE DEGREE COURSES.

For unconditional admission to the degree courses, the candidate must secure credit by examination or acceptable certificate as follows:

DEGREE	Age	English	History	Mathematics	Foreign Languages	Modern Languages	Elective (1)	Total	Conditions Allowed	REMARKS
Bachelor of Arts	16	3	2	2.5	5		1.5	14	2	Either 1.75 Greek or 2 French or Spanish, or 2 of German, in addition to 3 of Latin.
Bachelor of Science (General)	16	3	2	2.5		2	4.5	14	2	French or Spanish or German.
Bachelor of Science in C. E. or E. E.	16	3	2	2.5		2	4.5	14	2	French, Spanish or German.
Bachelor of Science Agriculture	16	3	2	2.5	2		4.5	14	2	3 units in Agriculture are allowed from the District Agricultural Schools.
Bachelor of Arts Education	16	3	2	2.5	5		1.5	14	2	Language requirements as in A. B. above.
Bachelor of Science		3	2	2.5	2		4.5	14	2	
Bachelor of Science Commerce	16	3	2	2.5		2	4.5	14	2	French or Spanish, or German.
Bachelor of Law	18	3					11	14	2	
Graduate in Pharmacy	18	1	1	1			1	4		The requirements of the American Conference of Pharmaceutical Faculties.

(1) Elective units may be selected from any of the units listed on pages 26-27.

ENTRANCE WITH ADVANCED STANDING.

Students entering from another college or university must present (1) **a letter of honorable dismissal;** (2) **an official and full statement of the college work already accomplished,** accompanying the same with a marked catalogue of the institution in which it was done; (3) **an official certificate satisfying the entrance requirements** of the college or department of the University which the student may wish to enter. The Entrance Committee can not take the fact that a student was admitted to some other college as sufficient ground for admitting him to courses here. In asking for his college record, therefore, he should also ask for a copy of his entrance units.

(4) In case credit is desired in drawing, etc., plates and drawings must be submitted before the amount of credit can be determined.

(5) Such advanced students must enter the University not later than the beginning of the Senior year. In determining their position in the University, however, the value of the work done at such college as well as the work offered for entrance at that college, will be measured by University standards.

Work from academies or other advanced secondary schools will not be accepted on certificate beyond the beginning of the Sophomore class. Drawings, laboratory note-books, etc., where a necessary part of school work for advanced credit, must be submitted in addition to the certificate. The school must be officially accredited for such advanced work.

Work offered in fulfillment of the entrance requirements may not be counted for advanced standing. A student admitted to advanced standing with a low record at previous institutions or who fails to maintain his advanced work may be required to repeat a course in the discretion of the professor.

SPECIAL STUDENTS.

Sometimes a person of mature years, not a candidate for a degree, but with a definite aim or for purposes of general culture, desires to take a course in the University without meeting the full entrance requirements. Such special students may be admitted under the following conditions: (a) they must be not less than twenty years of age; (b) they must give evidence of adequate preparation for the courses sought, to the individual professors in charge; (c) their names are printed separately in the catalogue. Students not less than eighteen years of age may be accepted as special students in the School of Forestry, upon the recommendation of the professor in charge.

An application for admission as a special student should be addressed to the Entrance Committee. It should state (1) the applicant's age, (2) his preparation, (3) a brief outline of the course or courses he wishes to pursue, (4) and the consent of the departments in which he wishes to register.

Should a student admitted as a special student become a candidate for a degree, he will be required to satisfy the full fourteen units of entrance requirements.

SHORT COURSES.

Students taking the short courses in Agriculture, Horticulture, and Dairying are exempt from the entrance requirements.

These courses include the one year Agricultural course, the short Cotton School course, and similar courses, that may be offered from time to time.

ADMISSION TO GRADUATE SCHOOL.

Admission to the Graduate School is granted to graduates of colleges of good standing. Other persons of suitable age and attainments may also be admitted by special permission of the Committee on Graduate Courses. Admission to the Graduate School does not imply admission to candidacy for a degree. Application for admission should be made by correspondence or at the office of the Dean.

A student who is in any wise doubtful as to his eligibility for admission to the Graduate School, previous to his coming to Athens, should correspond with the Dean of the Graduate School. Full details should be forwarded of the candidate's previous course of study, including a catalogue of the institution in which the undergraduate work was done.

METHODS OF ENTRANCE.

Note.—All applicants must have been successfully vaccinated or must be vaccinated before they register.

1. **Entrance Following Examination.** Those who plan to enter by examination will receive entrance cards from the Entrance Committee in Room 13, Academic Building, as soon as they have made the necessary units.

2. **Entrance in Advance.** Applicants planning to enter by certificate will be saved much trouble and annoyance and possibly delay by mailing their certificates in advance to the Entrance Committee as soon as they have decided to make application. All preliminary adjustments can be made by correspondence, at the close of which the successful applicant will be in possession of an entrance card which he will need merely to present to the Dean of the College or department in which he is to enroll.

3. **Entrance on Registration Days.** Those who have not sent in their certificates or who have certain deficiencies to remove and

desire a personal interview, will find the Entrance Committee in Room 13, Academic Building. As rapidly as possible the committee will go over the certificates and send the successful applicant to the proper Dean for registration. Applicants are not admitted on "probation" or "trial," or on "the promise of certificates later," or on "diplomas" or general "letters of commendation." They must stand the examinations or submit the official certificates. Applicants from a distance should, before coming to the University, await assurance that their credentials will be accepted and are sufficient for admission.

DEFINITIONS OF ENTRANCE UNITS.

The following information is published for the information of school officers, high school teachers and others who desire information regarding the character and extent of work which should constitute the units that are accepted for admission to the University of Georgia. The definitions of units are those that have been recommended by the Commission on Accredited Schools of the Southern States and the North Central Association of Colleges and Secondary Schools, and approved by the University, which is a member of the Southern Association. These definitions are published for the purpose of being helpful and suggestive rather than with the object of restricting the work of secondary teachers in any undesirable manner.

ENGLISH.

(3 units, but may be rated at 4 units where exceptionally good work is done under best conditions.)

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

The first object requires instruction in grammar and composition. English grammar should be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, paragraphs, and the different kinds of whole composition, including letter-writing, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument based upon simple outlines. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

The second object is sought by means of two lists of books, headed respectively reading, and study, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

Required Classics for 1912-13. The selections of the National Committee on uniform English Classics are grouped below for the guidance of English teachers in Georgia schools according to years, so that there may be more uniformity in study. Groups I, II, III, IV, V, are for "Reading and Practice," and ten selections, two from each, or one from I and three from II, a total of ten, indicated by the letters (a), (b), (c), are the **minimum** requirement for one unit. The teacher will use more if possible. The four divisions in the fourth year are for "careful study," and constitute one unit.

a. **Reading.** The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

First Year.

Group I. (Select one or two). Homer, (a) Odyssey (selections from standard English translations); (b) Iliad (selections); Vergil, (c) Aeneid (selections); (d) Old Testament Narratives.

Group II. (Select one). Shakespeare, (a) Midsummer Night's Dream; (b) As You Like It.

Group III. (Select one). Scott, (a) Ivanhoe, or (b) Quentin Durward; Stevenson, (c) Treasure Island; De Foe, (d) Robinson Crusoe, Part I.

Group IV. (Select one). Arnold, Macaulay, (a) Sohrab and Rustum, and Lays of Ancient Rome; Poe, Longfellow, and Whittier, (b) The Raven, Courtship of Miles Standish, and Snowbound; Scott, Coleridge, and Lowell, (d) Rhyme of the Ancient Mariner, and The Vision of Sir Launfal.

Suggestions for supplementary reading: Ballads, fables; Southern short stories selected from Page, Poe, Harris, Allen, and Goulding.

Second Year.

Note.—One unit as (a) should be studied from each of the four groups during the second year. More may be read.

Group II. Shakespeare, (a) The Merchant of Venice; (b) Twelfth Night.

Group III. Eliot, (a) Silas Marner; Goldsmith, (b) The Vicar of Wakefield; Gaskell, (c) Cranford.

Group IV. Irving, (a) Sketch Book; Stevenson, (b) An Inland Voyage, Travels with a Donkey; Parkman, (c) Oregon Trail; Bunyan, (d) Pilgrim's Progress, Part I; Franklin, (e) Autobiography.

Group V. Palgrave's (a) Golden Treasury (1st series), Books II and III, and special attention to Dryden, Collins, Gray, Cowper, and Burns; Goldsmith, (b) The Deserted Village; Gray, (c) The Elegy; Browning, (d) Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Incident of the French Camp, The Boy and the Angel, One More Work, Herve Reil, Pheidippides.

Third Year.

One unit as (a) should be studied from each group in a four year high school. A three year high school may take fourth year selections for careful study.

Group II. Shakespeare, (a) Julius Casear; (b) Henry V.

Group III. Dickens, (a) A Tale of Two Cities, or (b) David Copperfield; Hawthorne, (c) House of Seven Gables.

Group IV. Lincoln, (a) Selections, including the two inaugurals, the speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter of Horace Greely, along with a brief memoir or estimate; Thackeray, (b) English Humorists; Macaulay, (c) Lord Clive and Warren Hastings; Addison, (d) Sir Roger de Coverley Papers.

Group V. Palgrave's (a) Golden Treasury (1st series), Book IV, with special attention to Wordsworth, Keats, and Shelly; Tennyson, (b) Gareth and Lynnette, Lancelot and Elaine, and the Passing of Arthur; Byron, (c) Childe Harold, canto IV, and The Prisoner of Chillon.

Fourth Year.

(Required for "Careful Study," one each from the four groups).

Study.—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. For this close reading are provided a play, a group of poems, an oration, and an essay, as follows:

I. Burke, (a) Speech on Conciliation, or Washington's Farewell Address, and (b) Webster's Bunker Hill Oration.

II. Milton, (a) Comus, L'Allegro, and Il Penseroso.

III. Macaulay, (a) Life of Johnson, or Carlyle, (b) Essay on Burns.

IV. Shakespeare, (a) Macbeth.

The teacher may give for additional reading either Thackeray, Henry Esmond, or Thoreau, Walden, or Huxley's Autobiography, and selections from lay sermons, including: Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk, or any of the former groups not previously read.

For complete outline of English course for high schools, see Bulletin number 170.

HISTORY.

a. **Ancient History** (1 unit). Special attention to Greek and Roman history, but including also a short introductory study of the more ancient nations and the chief events of the early middle ages down to the death of Charles the Great, (814 A.D.).

b. **European History** from the death of Charles the Great to the present time (1 unit).

c. **English History** (1 unit).

d. **American History and Civil Government** (1 unit). The study of a more recent High School text in each and not a Grammar School History.

All applicants should offer *a.*

General History may be counted as a unit, but not in addition to ancient or medieval and modern history.

It may be said that the mere learning of the text will not give the preparation that the colleges desire. Happily the time is past when teachers are inclined to confine their classes to the memorizing of a single text. Effort should be made to cultivate the power of handling facts and of drawing proper deductions from data, to develop the faculty of discrimination, to teach the pupils the use of books and how to extract substance from the printed page. The acquisition of information alone cannot be the chief aim of any school work; knowledge of how to acquire information and, above all, some skill in putting forth what one knows must always be of more than secondary importance. History, therefore, should be taught as a disciplinary and educational subject. The school library or an accessible public library should be equipped with at least the following number of well selected books on the different units: Ancient History, 25 volumes; Medieval and Modern History, 25 volumes; English History, 50 volumes; American History, 75 volumes.

MATHEMATICS (3.5 units).

Algebra to quadratics, 1 unit.
Plane Geometry, 1 unit.
Algebra, quadratics and beyond, ½ unit.
Solid Geometry, ½ unit.
Plane Trigonometry, ½ unit.

The following suggestions are made as to the character of these courses:

Fundamental operations, factors, highest common divisors, least common multiples, fractions, negative quantities and the interpretation of negative results, simple equations in one or more unknowns, ratio and proportion, irrational numbers and radicals, theory of indices, quadratic equations with problems involving the same, graphical representation, simultaneous quadratic equations, binomial theorem with positive integral exponents, arithmetical and geometrical progressions. The subjects are given in any standard high school Algebra.

Algebra I should deal with the simpler portions of the topics named.

Omit complicated forms of parentheses, fractions, irrationals, types of factoring and equations. The aim should be a training in algebra as a method of thinking rather than as an exercise in the manipulation of complicated expressions. Ideas and methods should grow out of the pupil's knowledge of arithmetic and the relations of common experience. The traditional order of topics is not to be commended. Emphasis should be placed on the equation as a means of solving problems, other topics contributing assistance as the need arises. The equation should be used at the very beginning, as it is of paramount importance throughout the course.

The second course, ½ unit, should be a more systematical and scholarly consideration of the ground already covered and an extension of ideas to more complicated expressions. The pupil is now more mature and is better able to do abstract thinking. This is the time to acquaint him with the nature of algebra as a science. By the time he has finished this course, he should have acquired that facility in the use of algebraic expressions which is so essential to further study of mathematics. A mastery of the fundamentals of theory and practice must be insisted upon.

In plane geometry it is suggested that a clearer conception of geometrical reasoning and a firmer grasp upon geometrical facts can be acquired by a thorough consideration of a small number of theorems than by a hurried glance at a larger number. It is therefore recommended that the more important theorems be emphasized and that the less important be omitted or passed over without proof.

It is suggested that teachers be free to assume the truth of some of the most evident theorems at first. Proof may be given later if desired. The original demonstration of theorems is of the utmost importance. The use of exercises involving algebraic and numerical applications is to be encouraged. The habit of giving accurate definitions, the perception of what constitutes a demonstration of truth, confidence in one's own power of correct reasoning and the ability to discover geometrical relations are of more importance than the ability to recall the demonstration of a large number of theorems.

The geometrical, the arithmetrical, algebraic and physical phases of mathematics should be presented as far as possible, from the beginning to the end of the secondary course. It is recommended that the first unit be given during the first year and a half in connection with some arithmetic, and the more advanced course be given after the course in plane geometry in the third or fourth year.

LATIN.

Elementary Latin Book (1 unit). The student should acquire during this year a working vocabulary of several hundred words, a complete mastery of ordinary forms, the simpler principles of Latin syntax, and correct habits of translation and composition The student should be trained from the beginning to grasp the meaning of the Latin before translating, and then to render into idiomatic English; and should be taught to read Latin aloud with intelligent expression.

Caesar (1 unit). Any four books of the Gallic War, with study of the grammar and prose composition based upon the text read. Equivalent reading in other standard authors allowed, but not to exceed two books.

Reading aloud and translating, together with training in correct methods of apprehending the author's meaning, both prepared and unprepared passages being used as material.

Cicero. Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, the fourteenth Philippic.

Vergil. The first six books of the Aeneid.

The equivalent of at least one period a week in prose composition based on Cicero.

Note—In place of a part of Cicero, an equivalent of Sallust's Catiline, and in place of a part of Vergil, an equivalent of Ovid will be accepted for the third unit made up of readings from Cicero and Vergil.

GREEK (three units).

In Greek the definitions of the three units of the Philological Association are adopted.

1. **Introductory Lessons:** Xenophon's Anabasis (20 to 30 pages). Practice in reading at sight and in writing Greek. Systematic study of grammar begun.

2. **Xenophon's Anabasis** (continued), either alone or with other Attic prose (75 to 120 pages). Practice in reading at sight, systematic study of grammar, thorough grammatical review, and practice in writing Greek, both based on study of Books I and II of the Anabasis.

3. **Homer** (2,500 to 4,000 lines): e. g., Iliad I-III (omitting II, 494-end), and VI-VIII. Attic prose (33 to 40 pages), with practice in writing Greek, grammar, practise reading at sight.

Note—The University entrance requirement for Greek is 1¾ units. Ample provision is made at the University for students whose preparation in Greek is deficient. These classes must be taken by candidates for the degree of Bachelor of Arts who have had no instruction in Greek (unless German and French are to be substituted for Greek), and by students whose preparation has been lacking in thoroughness and accuracy, before proceeding to the regular requirements of the curriculum. Candidates for this degree are therefore urged to secure before entering college full preparation for the regular Freshman class in Greek (course 3). Summer School courses may also be taken to advantage.

GERMAN (two units).

1. During the first year the work should comprise: (a) Careful and persistent drill upon connected pronunciation; (b) The memorizing and frequent repetition of easy colloquial sentences; (c) Drill upon the rudiments of grammar, viz., upon word order, the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax; (d) Abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (e) The reading of from 50 to 100 pages of graduated texts from a reader or other text, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English). Besides parts of readers available for first year's class-work, good selections may be made from Müller und Wenckebach's Glück Auf; Kern's (Grimm's) German Stories Retold; Guerber's Märchen und Erzählungen; Seligmann's Altes und Neues.

It will be found, however, that the work as outlined above, can be done successfully only when the students of the class are either fairly mature (say, in the eleventh or twelfth grade), or have had some previous language training. It is only to such that the full reading requirements can profitably be made to apply as a part of the first year's work. The chief consideration in thoroughness and accuracy, is to put the student upon firm and sure ground, and never to give up what has already been gained. The first unit may, therefore, take more than one year with some classes.

2. The second unit's work should comprise: (a) The reading of from 150 to 200 pages of suitable texts in the form of easy stories and plays; (b) Accompanying practice, as before, in the translation into German and easy variations upon the matter read; (c) Continued drill upon the essentials of the grammar, directed to the ends of enabling the pupil, first to use his knowledge with facility in the formation of sentences and secondly, to state his knowledge correctly in the technical language of grammar.

Reading material suitable for the elementary course, other than that already mentioned, can be selected from the following list: Andersen's Märchen and Bilderbuch ohne Bilder; Weidermann's Biblische Geschichten; Heyse's L'Arrabbiata, Das Mädchen von Treppi; Storm's Immensee; Gerstaecker's Germelshausen; Auerbach's Brigitta; Fulda's Unter vier Augen; Wildenbruch's Das edle Blut; Zschokke's Der zerbrochene Krug; Blüthgen's Das Peterle von Nürnberg; Bacon's Im Vaterland; Mosher's Wilkommen in Deutschland; Lambert's Alltägliches.

The net results of the first two years of a high school German course should be: (a) A correct and ready pronunciation; (b) A ready, exact, and fairly complete working knowledge of grammar, especially on the formal (inflectional) side; (c) At least some ability to speak and understand the foreign spoken language; (d) A better understanding of the grammatical structure of the English language; (e) The reading of some 200-250 pages of suitable texts and the mastery of the fundamental facts of the language involved and illustrated in them; (f) The acquisition of a fair working vocabulary, involving the full mastery of some 80 per cent. of the words occurring in the texts read and worked over.

FRENCH (two units).

The definitions of the two units in French are those recommended by the committee of Twelve of the Modern Language Association of America.

1. During the first year the work should comprise: (a) Careful drill in pronunciation; (b) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the

plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (c) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (d) the reading of from 100 to 175 duodecimo pages of graduated text, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (e) writing French from dictation.

2. During the second year the work should comprise: (a) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (b) constant practice, as in the previous year, in translating into French easy variations upon the text read; (c) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (d) writing French from dictation; (e) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (f) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's Lè Roi des montagnes, Bruno's Le Tour de la France, Daudet's easier short tales, La Bedolliér's La Mere Michel et son chat, Erckmann-Chatrian's stories, Foa's Contes biographiques and Le Petit Robinson de Paris, Foncin's Le Pays de France, Labiche and Martin's La Poudre aux Yeux and Le Voyage de M. Perrichon, Legouvé and Labiche's La Cigale chez les fourmis, Malot's Sans Famille, Mairet's La Tâche du petit Pierre, Merimèe's Colomba, extracts from Michelet's Sarcery's Le Siége de Paris, Verne's stories.

SPANISH.

Work similar in amount and character to that outlined above for French.

PHYSICS (one unit).

1. The unit in Physics consists of at least 120 hours of assigned work. Two periods of laboratory work count as one of assigned work.

2. The work consists of three closely related parts, namely class work, lecture-demonstration work, and laboratory work. At least one-fourth of the time should be devoted to laboratory work.

3. It is very essential that double periods be arranged for the laboratory work.

4. The class work includes the study of at least one standard text.

5. In the laboratory each student should perform at least thirty individual experiments, and keep a careful note-book record of them. Twenty of these experiments must be quantitative; each of these must illustrate an important physical principle, and no two must illustrate the same principle.

6. In the class work the student must be drilled to an understanding of the use of the general principles which make up the required syllabus. He must be able to apply these principles intelligently to the solution of simple, practical, concrete problems.

Note—Where students have the proper training in class work and lecture-demonstration, but cannot have access to a laboratory for individual experiments, a half unit credit will be allowed.

CHEMISTRY (one unit).

The course should consist of at least three recitations and four hours of laboratory work weekly throughout the year.

PHYSICAL GEOGRAPHY (one unit).

The equivalent of work as presented in recent texts, with about forty laboratory lessons.

BOTANY (one unit).

The course should be based on one of the modern High School text-books. Special emphasis should be laid on the laboratory work, which should consist of work in both the structure and physiology of plants.

PHYSIOLOGY (½ unit).

Study of a recent standard text-book with some laboratory work. A study of muscles of chicken leg, a heart, bones, lungs, eye, brain, and one dissection of small animal should be made by each of two or four pupils. This study should come in second year of high school, preferably, and in connection with Botany or Zoölogy or in a combined text as Biology (1 unit).

ZOOLOGY (one unit, one-half unit).

A study of modern text and laboratory study of ten types for one unit, or five types for ½ unit. The study should come best in the second year of the high school and should consist of two class-room exercises and at least two laboratory double periods.

AGRICULTURE (one unit).

One full year should be given to the study of soils, plants, insects, and farm animals. There should be sufficient experimental and demonstration work in connection with the neighborhood farms or in the school plats, etc., to be equivalent to one double period a week. The text should be of the grade of Halligan, Warren or Bailey and not an elementary grade text.

COMMERCIAL GEOGRAPHY (one-half unit).

One-half year devoted to the study of the physical and known factors influencing commercial exchange.

FREEHAND DRAWING (one-half or one unit).

The minimum time to be given for one unit should be the equivalent of 240 hours of sixty minutes, preferably two double periods a week.

Mediums used: Pencil, charcoal, water color, crayons. The work should cover studies from objects, plant forms, pose drawing, landscape, and composition, illustrating proportion, perspective, values, texture and surface modeling,, and may include also decorative design—conventionalized plant forms, units, borders, corners, arrangement of straight lines and of straight and curved lines, stencils, geometric designs, historic ornament.

MANUAL TRAINING (Not to exceed two units).

The minimum time given for one-half unit in Manual Training should not be less than the equivalent of 120 hours of sixty minutes each. This Manual Training should be preceded or accompanied by Mechanical Drawing.

Bench Work (½ unit). Care and use of tools for measuring, squaring, sawing, planing, gauging, boring, chiseling, clamping, and finishing. Use of woods, nails, screws, glue. Use of oils, stains, filling, shellac, and varnish. Elementary constructions involving different forms of joints used in framing, cabinet work, and pattern making. Designing.

Wood Turning (½ unit). Care and use of lathe and tools. Turning of different woods. Centering, roughing, straight and taper turning, convex turning, concave and compound curve turning, beading, face plate turning, face and plug chuck work.

Pattern Work (½ unit). Drafts, shrinkage, and finish allowances. Parted patterns, dowels, fillets, fasteners, core prints and core boxes, built-up patterns, ribbed patterns.

Cabinet Work (½ unit). Furniture involving the common methods of construction and including panels, drawers, hinges, staining and fuming, filling and finishing. Each student should design his work and make complete drawings for it.

Machine Tool Work (½ unit). Work on the engine lathe, drill press, planer and shaper, involving such elementary principles as centering, straight and taper turning on external and internal surfaces, screw cutting, chuck and face plate work, filing and polishing, drilling, planing, and shaping.

Forging (½ unit). Management of forge, fire and tools. Practice involving the processes of drawing out, bending, twisting, upsetting, splitting, punching, forming, fullering, swaging, welding, case-hardening, annealing, hardening and tempering.

BOOKKEEPING AND BUSINESS ARITHMETIC (one unit).

The minimum time for one unit should be 240 hours, of sixty minutes.

No credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed. All work should be done in the class room under the eye of the instructor. Definitions of double entry terms, with rules for debit and credit, kinds and uses of books. Conduct of a set including the journal, cash book, sales book, ledger, check book, bank pass book, and trial balance book; closing of books. Single entry set: changing from single to double entry. Text-book, with exercises so arranged that no two students will do exactly the same work.

STENOGRAPHY AND TYPEWRITING (one unit).

(To include spelling and letter writing).

This work is expected to occupy not less than two double periods daily for one year. No credit should be given for either shorthand or typewriting if taken alone. The "touch" system is strongly recommended in typewriting.

The object is first, accuracy, and second, speed in taking dictation and transcribing notes. Equally essential are correct spelling, capitalization, punctuation and paragraphing.

No credit should be given unless the following speed is attained: At end of first year seventy-five words per minute of dictation and twenty-five words per minute on the machine.

Thorough training should also be given in care of the machine, and in methods of copying, manifolding and care of papers.

ELEMENTARY ECONOMICS (one-half unit).

Text-book with collateral readings, especially on economic England and the United States. In the selection of texts it would be well to avoid large and difficult books intended for college classes.

BUSINESS LAW (one-half unit).

Text-book supplemented by some study of cases, (by way of illustration), discussions and practice in drawing legal papers such as abstracts, notes, bill of exchange, bill of sale, bill of lading, power of attorney, deed, mortgage, lease, notice of protest, etc.

ACCREDITED SCHOOLS.

The following constitute the standards with reference to which schools are classified:

(a) No school shall be fully accredited which does not require for graduation the completion of a four-year high school course of study embracing fifteen units as defined by the University. More than twenty periods per week should be discouraged.

(b) The minimum scholastic attainment of three-fourths of all secondary school teachers of academic subjects in any accredited school shall be equivalent to graduation from a standard college. It is strongly advised that this attainment include, or be supplemented by, special study of the content and pedagogy of the subject taught.

(c) The number of daily periods of class-work instruction given by any teacher should not exceed six periods per day; and no school will be accredited in which more than seven full recitations per day are conducted by any teacher.

(d) The laboratory and library facilities shall be adequate for the needs of instruction in the courses taught.

At least forty minutes per week should be devoted to individual laboratory work in each of the sciences offered for admission. The University urges that laboratory periods in Chemistry and Physics should be of not less than eighty minutes duration. Double periods count for one in vocational subjects.

(e) The location and construction of the buildings, the lighting. heating, and ventilation of the rooms, the nature of the lavatories, corridors, water supply, school furniture, apparatus and methods of cleaning shall be such as to insure hygienic conditions for both pupils and teachers.

(f) The efficiency of instruction, the acquired habits of thought and speech, the general intellectual and moral tone of a school are paramount factors and, therefore, only schools that rank well in these particulars, as evidenced by rigid, thorough-going, sympathetic inspection, shall be considered eligible for the list.

(g) The University will decline to consider any school for full credit whose teaching force consists of fewer than three teachers of academic subjects giving their full time to high school instruction.

(h) No school shall be considered unless the regular annual blank furnished for the purpose shall have been filled out and placed on file with the inspector.

(i) All schools whose records show an excessive number of pupils per teacher. as based on the average number belonging, even though they may technically meet all other requirements, will be rejected. The University recognizes thirty as maximum.

(j) The time for which schools are accredited shall be for one to three years. In every case the character of the work done by a school must be the determining factor in accrediting. By personal visits of the inspector, by detailed reports from the principals, and by the records made by the students in colleges the character of a school's work shall be, from time to time, determined. A school shall be removed from the accredited list for failure to maintain the above standards.

Schools will be listed hereafter under the following groups:

Group I. **Fully Accredited:** Graduation on 15 accepted units as above defined; 4 year high school; 3 or more teachers of academic subjects; not exceeding 25 hours of work per pupil; not exceeding average of 30 pupils per teacher; not exceeding six classes to the teacher; laboratory and library facilities sufficient to meet the needs of instruction in the subjects offered; spirit of school intellectual, wholesome; three-fourths of teachers college graduates; buildings, sanitary conditions satisfactory.

Group II. **Accredited:** Graduation on at least 14 accepted units as above defined; 4-year high school; 2.5 teachers of academic subjects; not exceeding seven classes to the teacher; laboratory for demonstration in the sciences taught; library; other conditions as in Group I.

Group III. **Partially Accredited:** Graduation on at least 12 accepted units as above defined; a three- or four-year high school; with at least two teachers of academic subjects; other conditions as in Group II.

Group IV. **Recognized:** Graduation on at least 10 units as above defined; a three-year high school; one and a half teachers for academic subjects, one of whom shall be college trained; other conditions as in Group III.

Group V. **Partially Recognized:** Graduation on at least eight units; two- or three-year high school; not exceeding eight classes to the teacher, who must be college trained; other conditions as in Group IV.

Only applicants from Groups I, II, and III can enter the University without examination. The lower groups are listed for the convenience of normal schools and preparatory schools.

BOARD AND LODGING

DORMITORIES.

There are three dormitories, Old College, for Juniors and Seniors; New College and Candler Hall for undergraduates.

Rooms in the dormitories are lighted by electricity and are furnished with chairs, bed, table, and washstand. The student furnishes all the other articles and his own fuel. The University gives dormitory quarters to students rent free. A charge of five dollars per month, payable in advance, is made for each room occupied to cover the expenses of janitors, water, and lights. A deposit fee of $2.50 is required of every student before assignment is made. This fee is a charge against damage to the property, and the balance is returned at the end of the year.

The dormitories are in charge of a committee from the Faculty. The rules and regulations prescribed by this committee are enforced through Proctors placed over each division of the dormitories.

Those desiring dormitory rooms should apply in person or by letter to Mr. T. W. Reed, Treasurer, Athens, Ga. No assignment will be made until the required deposit free is paid. Applications should be made early as only about two hundred can be accommodated.

DENMARK DINING HALL.

The Hall, which is in charge of a competent matron, and under the immediate supervision of a member of the Faculty, furnishes board, on the coöperative plan, at $10.00 a month, to more than two hundred students. Regular financial statements are rendered by the professor in charge, and audited by a committee of the students. On account of the excellent management, it has been found possible to pay a rebate of several dollars at the end of each session. No reservations are made in advance. The students are given seats in the order of arrival at the Hall and the payment of the fees.

EXPENSES.

Residents of Georgia pay no tuition fees except in the Law and Pharmacy courses. Students who are residents of other states are charged a tuition fee of $50.00 per annum in literary courses, except in Agriculture. The following estimate of expenses includes all necessary items except clothing and railroad fare.

Expenses of Students when Rooming in a Dormitory and Boarding at Denmark Dining Hall.

Matriculation fee (paid on entrance) except Agriculture	$10.00
Library fee (paid on entrance) except Agriculture	5.00
Initiation fee to literary society (paid on entrance)	2.00
Board (paid monthly in advance, $10.00)	90.00
Books and stationery (estimated)	10.00
Furnishing room in Dormitory (estimated)	6.00
Laundry (estimated at $1.25 per month)	11.25
Room rent, lights and attendance ($2.50 per month)	22.50
Fuel (estimated)	10.00
Military uniforms, first year	20.00
Deposit fees in Dormitory and Dining Hall	5.00
	$191.75

Engineering students must have a set of drawing instruments.

A student, the first year, can scarcely meet his necessary expenses on less than $200 for the scholastic year; usually it will exceed this amount.

Note—In order to meet all the necessary expenses of registration, books, uniform and other expenditures incident to securing a room and board, a student should come prepared to expend about fifty dollars during the first ten days. After that period his board and room rent will constitute the major part of his expenses.

Students in the One Year Agricultural Course, the Winter Course, and the full Agricultural Course are exempt from matriculation and library fees.

The figures given above are for the first year. They are based upon the actual experiences of students. Expenses can be brought under the estimate by strict economy. Second-hand books can be purchased at the Students' Supply Store, and elsewhere, and it is often possible to purchase at reduced prices uniforms which have been used but little. In these and other ways money can be saved.

SPECIAL FEES.

Special fees, sufficient to cover the material consumed, are attached to the following courses:

Chemistry 1, 2, 3, 5, 6, 7	$2.50
Chemistry 8, 9	$10.00
Biological Laboratory	$2.50 to $3.50
Physical Laboratory	$3.00
Botanical Laboratory	$2.50 to $3.50

A fee of $5.00 is charged for the use of the gymnasium by all students who elect this work.

PRIVATE BOARD AND LODGING.

The charges for private rooms vary with the character of the furnishings, from $5.00 to $12.00 a month for two occupants. This is a very popular way of lodging. The students board at the Denmark Dining Hall, or they can secure private table board for $3.00 to $6.00 a week. A number of families in the city offer board and lodging at from $15.00 to $27.50 a month. The University cannot agree to engage rooms in private families. A list of those desiring boarders or having furnished rooms to rent will be given on application, but the student must make his own arrangements.

The officers of the University Y. M. C. A. also render every assistance possible to those desiring advice and help in such matters. There need be no anxiety, therefore, in regard to securing accommodations.

INCIDENTAL EXPENSES.

The incidental expenses of a student are what he makes them, and parents are urged to take into their own hands the control of a matter which no college regulation can successfully reach.

SCHOLARSHIPS.

Charles McDonald Brown Scholarship Fund.

This endowment was established in 1881, by the Hon. Joseph E. Brown, ex-Governor of Georgia, in memory of his son, of the class of 1878. for the purpose of aiding young men in defraying the expenses of their education. The interest on this fund is lent to worthy young men on condition that they obligate themselves to return it with four per cent. interest. Young men who enter the ministry are required to return but one-half the amount borrowed, with interest.

The colleges participating in the benefits of this fund are: the colleges at Athens (including the Law Department), the Medical College at Augusta, and the North Georgia Agricultural College at Dahlonega.

A special cricular of information concerning the fund, and blank forms of application will be supplied on request. Applications for loans from this fund must be made on these forms and must be in the hands of the Chancellor by April 1st. The grants are made in June by the Board of Trustees. Only $100 a year, in nine monthly installments, is allowed a borrowing student.

The Class of 1897 Scholarship Fund. The class of 1897 at their reunion in 1907 established a fund to be lent to needy students. Two hundred dollars is to be lent each year, and the money is to be paid back with four per cent. interest by the borrower as soon as possible after leaving college. Applications for the use of this fund must be made to the Chancellor. The applicant must be of good moral character, a good student, and a good athlete.

The Honor Graduate of an Accredited High School, on presentation of an official certificate by the Principal, is awarded a scholarship at the University for one year in the Academic courses. This exempts him from the payment of matriculation fees.

The Hodgson Scholarship. One hundred dollars per year for ten years, (expiring in 1918), given by the Empire State Chemical Company, to be lent on the same terms as the Charles McDonald Brown Scholarship Fund.

The A. L. Hull Scholarship. One hundred dollars per year for five years (expiring in 1915), given by the sons of the late A. L. Hull. to be lent to worthy young men, preferably Presbyterians, at five per cent. per annum.

The Bert Michael Scholarship. Sixty dollars per year, the income of a fund given by the family of the late Bert Michael, of the class of 1912, to be given to a member of the Junior class, selected by a committee of the Faculty.

THE PHELPS-STOKES FELLOWSHIP.

This Fellowship has been endowed under the following resolutions of the Trustees of the Phelps-Stokes Fund:

"Whereas, Miss Caroline Phelps Stokes in establishing the Phelps-Stokes Fund was especially solicitous to assist in improving the condition of the negro, and

"Whereas, It is the conviction of the Trustees that one of the best methods of forwarding this purpose is to provide means to enable southern youth of broad sympathies to make a scientific study of the negro and of his adjustment to American civilization,

"Resolved, that twelve thousand five hundred dollars ($12,500) be given to the University of Georgia for the permanent endowment of a research fellowship, on the following conditions:

"1. The University shall appoint annually a Fellow in Sociology, for the study of the Negro. He shall pursue advanced studies under the direction of the departments of Sociology. Economics, Education or History, as may be determined in each case by the Chancellor. The Fellowship shall yield $500, and shall, after four years, be restricted to graduate students.

"2. Each Fellow shall prepare a paper or thesis embodying the result of his investigations which shall be published by the University with assistance from the income of the fund, any surplus remaining being applicable to other objects incident to the main purpose of the Fellowship. A copy of these resolutions shall be incorporated in every publication issued under this foundation.

"3. The right to make all necessary regulations, not inconsistent with the spirit and letter of these resolutions, is given to the Chancellor and Faculty, but no changes in the conditions of the foundation can be made without the mutual consent both of the Trustees of the University and of the Phelps-Stokes Fund."

OPPORTUNITIES FOR SELF HELP.

A considerable number of students secure remunerative employment to aid them in their education. Usually the students of Agriculture are able to secure work on the farm for which they are paid. In a few instances other departments need the services of students. Usually these places go to those who have been in attendance for some time, and who are known to be willing, capable, and trustworthy. The University does not assume any responsibility whatever in this matter. As a matter of accommodation the Committee on Self Help coöperates as far as possible with students. The Y. M. C. A. offers its services in helping young men to secure employment. Very much depends, however, on the individual's power of initiative. Students should not come to the University expecting others to find places for them.

It seems necessary to warn students on this subject. The average young man cannot ordinarily do much more than earn his living when he has nothing else to do. To earn a living and at the same time carry the work of a college course planned to occupy a student's full time is more than most students can accomplish. In a few instances they have succeeded, but as a rule students who attempt more than partial self-support should expect to lengthen their term of study.

DISCIPLINE AND GENERAL REGULATIONS.

The discipline of the colleges at Athens is in the hands of the Chancellor of the University, who in its administration may ask advice of the Faculty. The honor system prevails and formal regulations are few and general in character.

The State of Georgia extends the privileges of the University to all persons who are qualified for admission. Thus the University does not receive patronage. but is itself the patron of those who seek its privileges and honors. It is maintained at public expense for the public good. It cannot, however, be the patron of inefficiency, idleness, or dissipation. Its classes have no room except for those who diligently pursue the studies of their choice and are willing to be governed in their conduct by the rules of propriety. Every student owes to the public a full equivalent of expenditures in his behalf, both while in the institution and afterwards.

The Registrar's books will open on Monday, Sept. 15th, and the following rule has been passed by the Board of Trustees relative to registration:

All students registering after Saturday noon following the Wednesday on which the University opens shall pay an extra registration fee of $2.50, unless excused from the payment of the same by the Chancellor.

The annual session of the University is divided into three terms, as follows:

First Term—From the opening in September to the beginning of the Christmas vacation.

Second Term—Beginning at the close of the Christmas vacation, and extending to and including the third Saturday in March.

Third Term—Beginning at the close of the second term, and extending to and including the Friday before Commencement Day.

At the end of and within each term a sufficient number of days is set apart for term examinations, two examinations, of not more than three hours duration each, being given on each day, and the examinations for the Senior classes at the end of the third term conclude on the Wednesday preceding Commencement Day.

At the instance of an officer of instruction. the Faculty may grant a reëxamination to a student failing in any of the term examinations, providing that such reëxamination shall be held within the period set aside for the third term examinations, extended to and including the Monday preceding Commencement Day, except that for the graduating class such period shall not extend beyond the Saturday preceding Commencement Day.

The term examinations of any session will be open to students who may have failed in the examinations of preceding sessions.

No other examinations (except the regular entrance examinations) will be authorized by the Faculty or held by the officers of instruction, it being understood that this regulation does not forbid written tests within the regular class hour, provided the preparation for such written tests does not reasonably involve neglect of other duty.

Five reports of the standing of students are made during the session, one at the end of each term and one in the middle of each of the first and second terms.

The annual Commencement exercises are held on the third Wednesday in June. Other exercises are held on preceding days, and the baccalaureate sermon is preached on the Sunday preceding. The summer vacation extends from Commencement Day to the third Wednesday in September. During this time, however, the Summer Session of the University is held, as indicated in the Calendar. A short recess is given at Christmas, and national and state holidays are observed, as indicated in the Calendar.

STUDENT ADVISERS.

Students are assigned in suitable numbers to the several members of the Faculty for special oversight. In case of any proposed change in his course of study, a student must consult his adviser, who will judge the reasons for the change and report the case to the Dean for final action.

CHAPEL SERVICES.

Chapel exercises, conducted by the Chancellor or some member of the Faculty. are held every morning except Sunday in the Chapel. On Sunday the students may attend services in any of the Sunday Schools, Churches, and Religious Associations in the city. These are as follows: Baptist, Catholic, Christian, Episcopal, Methodist, Presbyterian, Jewish Synagogue, Young Men's Christian Association, etc.

HONORS AND APPOINTMENTS.

Sophomore Declaimers. In April of each year ten members of the Sophomore Class are selected to compete for a declamation prize offered at Commencement.

Junior Speakers. Six members of the Junior Class are selected on the basis of original speeches to represent the class at Commencement.

Senior Speakers. The Senior Class is represented on Commencement Day by two orators, the selection being made on the merits of original speeches. No student who fails to receive his degree may appear among the speakers.

Speakers from the Law Department. Two members of the Law Department are selected by the Faculty to represent that department on Commencement Day.

Valedictorian. At the regular Faculty meeting, on Monday before the third Wednesday in May, the Faculty nominates not more than five members of the Senior Class who stand first in scholarship. The names are submitted in alphabetical order to the Senior Class, and they elect from them a valedictorian, with the understanding that he shall maintain his standing in scholarship but need not be the first honor man.

No student is allowed to appear at Commencement either as speaker or declaimer who is not a member in good and full standing of one of the literary societies. and who has not taken instruction in declamation in this or some other institution—in either event to the satisfaction of the Professor of Rhetoric and English Literature.

The Debaters' Medals. Six gold medals are offered by the Board of Trustees, to be awarded as prizes to members of the Freshman and Sophomore classes for excellence in debating. A medal is awarded to each of the debaters representing the Literary Society which wins a debate.

The Ready Writer's Medal. To encourage the art of composition, the Board of Trustees award a gold medal for the best essay written by any student of the University upon a theme announced after the competitors enter the room.

The Willcox Prizes. Two prizes, in French and in German, of $50.00 (gold) each, are offered for competition in the Senior class in French and in German. These prizes were founded in 1896 as a memorial to their lamented father, by the sons of the late Prof. Cyprian Porter Willcox, A.M., LL.D., who, from 1872 until his death in 1895, filled with great distinction the chair of Modern Languages in the University.

The Freshman Prize. The "Hamilton McWhorter Prize," as of the class of 1875, for general excellence in the Freshman class, is awarded to the member of that class who stands first in scholarship.

The Bryan Prize . The Hon. W. J. Bryan has donated the sum of two hundred and fifty dollars, the income of which is given annually as a prize to the writer of the best essay on our form of government.

The Peabody Scholarship. In 1903 Mr. George Foster Peabody established a permanent scholarship in Harvard University for the benefit of a graduate of this institution. The appointment is made annually by the Chancellor.

The Philosophy Prize. Two prizes of fifty dollars each were founded in 1902 by Judge Horace Russell, of New York. These prizes, named by the Board of Trustees the "Horace Russell Prize in Psychology," and the "Walter B. Hill Prize in Ethics," are awarded to the writers of the best essays on subjects assigned by the Professor of Philosophy.

The Cadet Prize. A prize is annually awarded to the best drilled cadet in the Corps in a competitive contest held during Commencement.

The R. E. Park, Jr., Prize. Prof. R. E. Park, Jr., offers a gold medal for the best oration by a member of the Junior class.

The L. H. Charbonnier Prize. A prize of a fine set of drawing instruments is offered by Mrs. Jas. F. McGowan, of Augusta, in honor of her father, who for more than thirty years served the University with distinction as Professor of Engineering, Commandant of Cadets, and Professor of Physics and Astronomy. This prize will be given to the member of the graduating class whose record in the school of Physics has been most creditable.

The College of Agriculture Prize. The Trustees offer a prize of twenty-five dollars in gold to the student in Agriculture writing the best essay on a subject assigned by the professors of agricutlure. Other prizes offered to students in Agriculture are described in the statement of the College of Agriculture.

AWARD OF PRIZES, 1911

The Debaters' Medals. Freshman Class: T. H. Hendricks, S. Mitchell, L. E. Sweat; Sophomore Class: C. I. Funkenstein, L. Michael, V. Victor.

The Ready Writer's Medal. J. R. Lynch.

The Willcox Prizes. French: B. Michael.
German: V. E. Durden.

The Freshman Prize. E. J. Hardin.

The W. J. Bryan Prize. J. H. Ross.

The Horace Russell Prize in Psychology. B. I. Segall.

The Walter B. Hill Prize in Ethics. M. B. Folsom.

The Cadet Prize. B. Little.

The R. E. Park, Jr., Prize. E. Morgenstern.

The L. H. Charbonnier Prize. C. H. Stone.

The Trustees Prize in Agriculture. R. R. Childs.

DEGREES CONFERRED, 1912

HONORARY DEGREES.

Doctor of Laws.

Joseph M. Brown.

Doctor of Divinity.

Marcellus L. Troutman.

Doctor of Science.

John S. Coon,
William H. Emerson,
Charles M. Strahan.

GRADUATES

Master of Arts.

David Robert Cumming.
Joseph Hancock Marshburn.
Albert Amis Rayle, Jr.
William Telford Turk.

Bachelor of Arts.

Lloyd Davidson Brown
Virgil Edward Durden
Marion Bayard Folsom
Bert Michael
with honors.

William Wright Abbott.
Edward Thomas Anderson.
Paul Seabrook Blanchard.
Tom Sherman Brand.
Leon Hoyt Covington.
James Allan Etheridge.
Rhesa Screven Farmer.
Paul McDaniel Felker.
Gullie Benjamin Goldin.
Charles Joel.
Roy Edgar Lanham.
William Azmer Mann.
Charles Edward Martin.
William King Meadow.
Harold Diedrich Meyer.
Thomas Irwin Miller.
William Hamp Mullins.
Charles Henderson Newsom.
William Perrin Nicolson, Jr.
George Traylor Northen.
Marvin Banks Perry.
John Robert Radford, Jr.
Joseph Hennesy Ross.
Henry Dozier Russell.
Richard Bowie Saxon.
Elmer Raymond Stump.
Benton Hair Walton.
Thomas Jackson Woofter, Jr.
Kenyon Benedict Zahner.

Bachelor of Science (General).

Dana Collins Belser.
Cliff Brannen.
Charles Thompson Estes.
Conway Walter Hunter.
Henry Stanley Langston.
William Arthur Reid.
Augustus O. Bacon Sparks.
Charles Holmes Stone.
Benjamin Franklin Stovall.
John Ralph Tibbetts.
Scott Homer Titshaw.
James Hamilton Ware.
Andrew Louis West.
Mark Pearson Pentecost, as of the Class of 1909.

Bachelor of Science (Civil Engineering).

Cameron Douglas Flanigen, Jr.
Robert Alexander Laird.
Walter Malry Lucas.

Bachelor of Science (Electrical Engineering).

Harold Thompson.

Bachelor of Science (Agriculture).

Walter Green Acree.
Benjamin Lewis Brinson, Jr.
Ross Renfroe Childs.
Milton Cleveland Gay.
Robert Oliver Hutcheson.
Robert Fred Whelchel.

Bachelor of Science (Forestry).

Josiah Tattnall Kollock.

Bachelor of Law.

Hosea Abit Nix, with honors.

William Spencer Connerat.
Carl Foster Crossley.
Joseph Lumpkin Deadwyler.
James Edward English.
Lovick George Fortson.
Wimberly Powell McLeod.
John Milton Morrow.
John Thomas Murray.
Henry Alexander Newman.
Fred Victor Paradise.
Frank Thomas Phillips.
Thomas Nimmons Powell.
John Zeigler Ryan.
Eugene Hilliard Spalding.
Marcellus Lyttleton Troutman.
Reuben McDaniel Tuck.
Joseph Eugene Varela.

Graduate in Pharmacy.

Nelson Stephen Arthur.
Thomas Clark, Jr.
William Cary Harper.
Gus Monroe Parkerson.
Albert Manning Swift.
John Binion Woodcock.

PUBLICATIONS OF THE UNIVERSITY.

Bulletin of The University of Georgia. Under this general title the University issues a monthly publication, which is sent to regular mailing lists or may be had upon application to the University.

This includes the Register, the General Catalogue of the University system, announcements of the Summer Session, the Law Department, the School of Pharmacy, the Graduate School, the Peabody School of Education, the Summer Coaching School, the Alumni Number, the Catalogue of Trustees, Officers and Alumni, issued every five years, the University Illustrated, and several issues of a scientific and literary nature.

From the College of Agriculture are issued:

Bulletin of Farmers' Institutes, President Soule, Editor.

Bulletins of the Experiment Station, Director M. V. Calvin, Editor, Experiment, Ga.

Bulletins of the College of Agriculture.

Nature Study, for the use of schools.

The publications conducted by the students include:

The Red and Black, a weekly, now in its nineteenth volume, the organ of the Athletic Association.

The Georgian, a monthly literary magazine.

The Pandora, an illustrated annual of college life, issued by the Senior classes.

The University Handbook, issued by the Y. M. C. A.

The Engineering Annual, now in its fourteenth volume, issued by the Engineering Society.

The Agricultural Quarterly, published quarterly by the Agricultural Club.

LITERARY SOCIETIES.

The Demosthenian Society was founded in 1801, and the Phi Kappa Literary Society in 1820. The members of the societies meet in their respective halls every Wednesday evening at 8 o'clock.

On the evening of February 20th these Societies celebrate together, with public exercises, the anniversary of their founding.

Under the auspices of the Literary Societies intercollegiate debates are held annually.

A Champion Debate between the two literary societies is held on the Monday evening of Commencement week.

STUDENT ORGANIZATIONS.

The college Young Men's Christian Association holds weekly meetings which are addressed by local or visiting ministers, or by members of the Faculty; prayer-meetings are also held weekly.

The Association has its own secretary, whose time is devoted to this work. Attractive reading rooms, containing the current periodical, are open to all students. The Association also conducts an employment bureau and is of service in arranging boarding places for new students. At the opening of each session, a mass meeting which is largely attended, is held under its auspices.

The Engineering Society was organized in 1889. Its object is to create an interest among the students in matters pertaining to civil, electrical, and architectural engineering, and recent development along all lines of scientific research. The society holds fortnightly meetings during the session, at which papers are read and lectures delivered. The society publishes in June the "Engineering Annual."

The Athletic Association is a student organization for the encouragement and management of athletic sports. Football, baseball, and track teams are regularly organized. Subject to the general direction of the Physical Director, the management of the athletic activities of the University is relegated to the Athletic Association.

The Agricultural Club was organized in 1906. Its object is to create and promote interest among the students in matters pertaining to agriculture and allied sciences. It holds regular meetings and publishes a quarterly magazine called the "Agricultural Quarterly."

Other student organizations are the Press Club, the Glee Club, the College Orchestra, and the Thalian Dramatic Association.

Regulations concerning student organizations and publications may be had on application to the Chancellor's office.

SOCIETY OF ALUMNI.

This society is composed of graduates of the University, and has for its object the promotion of letters and science, as well as the annual renewal of the associations of academic life. It holds its meetings at the close of each session, when an orator is appointed by the society from among its members. The oration is delivered on Tuesday during Commencement.

The officers of the organization are:

E. H. Callaway	President
Clark Howell	First Vice-President
S. B. Adams	Second Vice-President
R. P. Brooks	Third Vice-President
C. M. Strahan	Treasurer
W. O. Payne	Assistant Treasurer
Sylvanus Morris	Secretary

Land Trustees.

D. C. Barrow.
T. J. Shackelford.
Harry Hodgson.

These Trustees, appointed by the society, are charged with the duty of purchasing additions to the campus and conveying these parcels of land to the Trustees of the University.

THE UNIVERSITY LIBRARY

The University Library is housed in a handsome building, the gift of Mr. George Foster Peabody. The total number of volumes is somewhat over forty thousand, many of the older works being of considerable historical and antiquarian interest. Especially may be mentioned volumes of early American travel, files of early Georgia newspapers and of early English and American periodicals.

The library has had a varied career of over a century. It was founded by a resolution of the 27th November, 1800, ordering the purchase of certain books "for the use of the students when not engaged in their academical studies;" was the cause of an attempted state lottery in 1806; had quarters in "Philosophical Hall"—now the Road Laboratory—during 1821-23; was largely destroyed in the New College fire of 1830; occupied the "Ivy Building" for the next thirty years, the "Old Library" for the following forty-five, until in 1905 the present building was completed.

As far as funds will allow, the University library attempts to meet not only the needs of faculty and students in the various fields of instruction and special study, but to build up its collections on the broadest cultural basis. About 1,000 volumes are added each year, and a representative list of one hundred and sixty-five periodicals is subscribed for. The library is a depository for the publications of the United States Government and receives by gift the publications of numerous state bureaus, learned societies, etc. Its collection of pamphlets numbers over ten thousand.

The classification is based upon the Dewey system, amplified and modified in accordance with the practice of other modern University libraries. The dictionary catalogue contains entries for all works acquired since 1904, and older works are being catalogued as fast as current library work will allow. A classified subject catalogue for the use of advanced students and departmental subject card catalogues are also being prepared. Special attention is given to pamphlets. Bibliographies are prepared for intercollegiate, inter-society and class debates, prize essays, and subjects of current interest.

Hours of Opening.

Week days, 9 A. M.- 1:50 P. M.; 3 - 6; 7:30 - 10:30 P. M.
Holidays, 9 A. M.- 1 P. M.
Sundays, 3 - 6 P. M.

The libraries of the Law School and of the College of Agriculture are located in their respective buildings. Fuller statements concerning these libraries will be found under their respective schools.

THE GRADUATE SCHOOL

HISTORICAL.

Although the first statutes of the University contemplated resident graduate students,* it was the custom here (as it was elsewhere, and indeed still is in some universities,) to confer the degree of Master of Arts upon any Bachelor of Arts of good character who, three years or more after graduation, should formally apply for the degree, and pay a fee therefor.** In 1868 a course of study was laid down which candidates for the Master's degree were to pursue. From 1869 until 1890 the regulations required the candidate successfully to complete the most advanced course in each of the academic (non-professional) schools. In 1892 the requirements for the degrees became what they have since substantially remained; slight modifications have been made from time to time.

In the Catalogue of 1872-73 the degree of Civil Engineer is advertised for the first time as a graduate degree, being based on the degree of Bachelor of Engineering. The degree of Civil and Mining Engineer was a still higher degree, based on both B.E. and C.E.

The degree of Master of Science was first offered in 1890, and M. S. in Agriculture in 1910.***

The graduate work of the University has been supervised by the Faculty, chiefly through its Committee on Graduate Courses. In 1910 the work was set apart by the Board of Trustees as the Graduate School, with its own Dean.

ADMISSION.

Admission to the Graduate School is granted to graduates of colleges of good standing. Other persons of suitable age and attainments may also be admitted by special permission of the Committee on Graduate Courses. Admission to the Graduate School does not imply admission to candidacy for a degree. Application for admission should be made by correspondence or at the office of the Dean.

Should a student desire to take a graduate course for which his undergraduate work has not afforded sufficient preparation, he will be required to pursue the requisite studies.

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* "Masters and Bachelors of Arts, who shall signify to the President their purpose of residing at the College or in Athens with a view of pursuing literature, under his direction, and under the government of the College, and give a sufficient bond to the Board of Trustees for the payment of their quarter bills, shall be considered as resident Graduates and students of the College." Laws of the College of Georgia, 1803, Chap. II, Sec. IV. So also Code of Laws for the government of Franklin College, 1816, Chap. II, Sec. XVI.

** Code of 1803, Chap. XII, Secs. II and IV. Code of 1816, Chap. II, Sec. XVI, and Chap. VIII, Secs. II and IV.

*** The degree of Master of Agriculture had been offered from 1876 to 1879.

DEGREES.

The degrees conferred in the Graduate School are Master of Arts, Master of Science, Civil Engineer, Master of Science in Agriculture.

Candidates must have received a baccalaureate degree from this or some other institution of reputable standing, and must pursue here and complete satisfactorily a major and two minor courses.

The programme of study must form a consistent plan of work with some definite aim; it must not include any course that forms a part of the candidate's programme of study or of his curriculum for any other degree conferred or to be conferred here; it should be submitted early in the session (not later than November 1st,) to the Dean of the Graduate School, and must receive the approval of the Committee on Graduate Courses and of the Faculty.

In case a thesis or essay is required in connection with a graduate course, the assignment must be made to the candidate and reported to the Dean of the Graduate School not later than January 1st. The thesis must be handed to the professor not later than May 1st, and, if approved by him and by the Faculty, a bound copy must be deposited in the Library before the second Wednesday in June.

After the professors under whom the candidate has pursued an approved programme of study have reported in writing to the Dean that he has satisfactorily pursued the required courses and has passed written examinations upon them, he will be orally examined by a committee of the Faculty. Reports of written examinations must be made not later than two weeks before Commencement Sunday. In making reports the professor will transmit a copy of the written examination (questions and candidate's papers) for the use of the examining committee of the Faculty. This committee is appointed by the Chancellor and consists of not less than seven members of the Faculty. All other members of the Faculty are invited to attend the examination.

Master of Arts. Prerequisite degree: Bachelor of Arts or Bachelor of Science. The major course and at least one minor must be selected from the following departments of study: Philosophy, Education, History, Political Science, Rhetoric, English Literature, the English Language, German, Latin, Greek, Romance Languages, Mathematics.

Master of Science. Prerequisite degree: Bachelor of Science or Bachelor of Arts. The major course and at least one minor must be selected from the following departments of study: Mathematics, Chemistry, Geology, Physics, Astronomy, Physiology, Zoölogy, Botany.

Civil Engineer. Prerequisite degree: Bachelor of Science in Civil Engineering or Bachelor of Science in Electrical Engineering. The major course must be in the department of Civil Engineering and the minors may be from minor graduate courses, or certain undergraduate courses, offered in other departments of the University. The choice of minors is subject to the approval of the Professor of Civil Engineering.

Master of Science in Agriculture. A reputable baccalaureate degree prerequisite. The major and at least one minor must be selected from courses offered in the College of Agriculture. One minor may be chosen from graduate courses offered in other departments of the University or from certain undergraduate courses. The choice of courses is subject to the approval of the professor in charge of the department in which the major course is selected.

COURSES, 1913-1914.

Explanation. Courses of instruction are classed as majors or minors according to the estimated amount of work required, and to some extent according to the nature of the subject. A major course will require half of the work of a candidate for the Master's degree in residence for one year. A minor course will require a quarter of his time. A major course is based upon and presupposes the Senior or most advanced undergraduate course of a Department. A minor course generally demands similar prerequisites, but extensions of certain advanced undergraduate courses may also be rated as minor graduate courses. A candidate for a degree will not be permitted, as a rule, to offer more than one minor that is not based upon the most advanced undergraduate course of a Department. All courses are submitted for approval and rating to the Committee on Graduate Courses, and are finally passed upon by the Faculty.

GREEK.

a. Selections from Homer, Herodotus, the dramatists, Thucydides, Plato, and Demosthenes.

b. Brief introduction to Historical Grammar. Classical Greek Syntax: Gildersleeve, and other works. Oral and written exercises in Attic Greek. Recitation of the more familiar metres. Readings in the History of Greece.

Three Lectures per week. Major. *Professor Bocock* and *Adjunct Professor McWhorter.*

LATIN.

1. A major course, designed to supplement the undergraduate courses, and therefore somewhat general in nature. It comprises the reading of considerable portions of Catullus, Lucretius, Juvenal, Seneca, and the Younger Pliny, with readings in Dill, Mommsen, and Ferrero; a review of grammar, from the comparative and historical point of view; exercises in Latin writing; reading in the

history of the literature, and an introduction to epigraphy and palaeography. Four hours per week. *Professor Hooper* and *Adjunct Professor McWhorter.*

2. A minor course in the Roman drama, consisting of lectures on the subject, and reading of a number of representative plays of Plautus, Terence, and Seneca. Especial attention is paid to the relationship of the Roman drama to the Greek drama, on the one hand, and the English drama on the other. Two hours per week. *Professor Hooper.*

GERMAN.

The German Classics. Selections from the following: Goethe: Werther, Faust I, Poems, Egmont, Iphigenie, Wilhelm Meister. Schiller: Kabale und Liebe, Fiesco, Don Carlos, Jungfrau von Orleans, Wallenstein, Wilhelm Tell, Poems. Lessing: Emilia Galotti, Minna von Barnhelm, Nathan der Weise, Hamburgische Dramaturgie, Laocoon, Controversial Writings.

Commentaries: Dünzer, Hettner, Braun, Bulthaupt, Fischer.

1. Major. About eleven hundred pages of German. Four conferences weekly.

2. Minor. About seven hundred pages of German. Two conferences weekly. *Professor Morris.*

FRENCH.

Le Roman en France dans la deuxième partie du XIXme Siècle.

Lectures in French. Reading of works by Flaubert, Feuillet, Cherbuliez, Fromentin, les de Goncourt, Daudet, Loti, Zola, de Maupassant, Bourget, Rod, Margueritte, Rosny, Prévot, Barrés, France, Fabre, Theuriet, etc.

Two hours per week. Minor. *Professor Lustrat.*

ENGLISH LITERATURE.

The English Drama. *a.* The Early English Religious Drama, some of the Morality Plays, and a sufficient number of the early tragedies and comedies to give a clear insight into the development of the drama.

b. Selected plays of Shakespeare studied with reference to their sources, technique, and literary qualities.

c. History of the Elizabethan Period: manners and customs, politics, education, etc. (Traill, Collier, Courthope, Green, Taine, Symonds, and others).

d. Selected plays of Jonson, Beaumont and Fletcher, Middleton, Ford, Day, Decker, Webster, and Shirley, studied in comparison with those of Shakespeare.

e. A short study of the Restoration Drama as represented by Dryden, Wycherly, Congreve, Addison.

f. Selected modern plays. Comparison with the earlier drama.

Text books: Ward's English Drama; Miss Woodbridge's Technique of the Drama; Manley's Specimens of Early English Plays. Collateral reading will also be assigned.

1. *a.* to *f.* inclusive. Four hours per week. Major. *Professor Park.*

2. *a.*, and less extensive work in *b.* to *f.* inclusive. Two hours per week. Minor. *Professor Park.*

HISTORY.

1. **The English Constitution to the Reign of Henry VII.** A course comprising a thorough study of the foundations of Anglo-Saxon institutions, and their development through the mediaeval. It is based upon Stubbs's Constitutional History of England, and is rated as a minor. Three hours a week, first half year. *Professor McPherson, Associate Professors Payne,* and *Brooks.*

2. **The English Constitution since the Reign of Henry VII.** A course based upon the constitutional histories of Hallam and May, and covering the later phases of the development of English institutions. Three hours a week, second half year. Rated as a minor. *Professor McPherson, Associate Professors Payne,* and *Brooks.*

Courses 1 and 2 are together rated as a major. Each includes parallel reading, tested by frequent examinations. When taken as a major, a dissertation involving original investigation must be presented and approved before the candidate is admitted to final examination.

3. **History of Georgia.** A course in methodology. The student will receive training in the use of original sources, and will be required to familiarize himself with all the primary and secondary sources of the history of the State. Three hours per week. Rated as a minor. *Associate Professor Brooks.*

ECONOMICS.

Public Finance. Conferences will be held (a) for the discussion of sources and methods of investigation in Economics as applied particularly to the subject in hand, and (b) for the presentation and discussion of reports of students on the results of their investigations.

Publications of the U. S. Treasury and some of the other Departments; of the Census Bureau; letters from the Secretary of the Treasury transmitting estimates of appropriations; report of Industrial Commission; publications of state treasurers and tax commissioners; statutes of the U. S., and of the States; Proceedings of National Tax Association; Columbia University Studies in History, Economics, and Public Law; T. M. Cooley, Treatise on the Law of Taxation; various monographs.

Prerequisite: Economics 5, or its equivalent.

1. As a major the work will consist of an investigation of (a) the public expenditures of the States of the Union, or (b) the public revenues of the States. The student will present a final report based as far as possible on primary sources.

Four hours per week. *Professor Curtis.*

2. As a minor the work will consist of an investigation of some one phase of taxation, or tax administration.

Two hours per week. *Professor Curtis.*

PHILOSOPHY.

1. **Systematic Psychology** (Psychology 7). An advanced course in systematic and experimental psychology intended as a detailed study of theoretical discussions and original investigations regarding a single special topic, such as Sensations, Feelings, Attention, Association, Memory, etc., and as an introduction to the use of quantitative methods applicable to this topic. Parallel reading of one general systematic treatise by one of the following authors: Wundt, Ebbinghaus, James, Titchener, Münsterberg, or Ladd, will be required as a general basis of the work.

Prerequisites: Philosophy 1-2 and 6.

Two conferences and four hours experimental work weekly. Major. *Professor Geissler.*

2. **Systematic Psychology.** Identical with Course 1 except that the experimental work is less extensive.

One conference and two hours laboratory work weekly. Minor. *Professor Geissler.*

3. **Applied Psychology** (Psychology 11). As a rule this course will refer mainly to teaching. Texts: Münsterberg's Psychology and the Teacher; Kirkpatrick, Genetic Psychology; Thorndike, Educational Psychology; Whipple, Manual of Mental and Physical Tests. Comparative Psychology: Washburn, The Animal Mind; Yerkes, Animal Behavior; Thorndike, Animal Intelligence. Abnormal Psychology: Störring, Mental Pathology; Ribot, Diseases of Personality.

Prerequisites: Philosophy 1-2 and 6.

Two conferences a week. Minor. *Professor Geissler.*

4. An extension of the Senior Course in Philosophy. (a) History of Philosophy, based mainly on Rogers's Student's History of Philosophy. (b) A study of the social mind, based on Ross's Social Psychology. (c) A study of Ethics, based mainly on the text of Dewey and Tufts.

Four hours a week. Minor. *Professor Woofter.*

MATHEMATICS.

Of the following courses the requirement for a major will be two lectures per week in each of any three, together with an original paper covering an investigation of some related topic to be assigned by the department.

1. **Differential Equations.** An elementary course in Ordinary and Partial Differential Equations, with especial reference to methods of solution of equations most frequently occurring in the physical sciences.

2. **Vector Analysis.** A course of lectures in which a system of coördinates is presented and their advantages in certain classes of problems illustrated.

3. **Projective Geometry.** A course in Synthetic Geometry, based upon Holgate's translation of Reye, with reference to Cremona and Enriques.

4. **Theoretical Mechanics.** An analytical treatment of certain questions in Statics and Dynamics with the aid of the Calculus. A large number of problems illustrating the principles will be given. *Professor Stephens* and *Adjunct Professor Pond.*

PHYSICS.

a. Physics 6 as given to the Senior Class; consisting of three hours per week of lectures on Theoretical Physics, as follows: First term, the Wave Theory of Light, using Edsen's "Light for Students" as a text. Second term: the Propagation of Electro-magnetic Waves, using Fleming's "Principles of Electric Wave Telegraphy" as a reference book. Third term: the Discharge of Electricity through Gases, Radioactivity, and the Electron Theory, using McClung's "Discharge of Electricity through Gases," and Campbell's "Modern Electrical Theory" as reference books.

b. Individual laboratory work requiring approximately four hours per week; to be devoted to a series of experiments designed to illustrate and verify conclusions reached in the theoretical discussions of Physics 6. In this work the student will be largely left to this own resources to work out the details of the method to be adopted in the solution of the experimental problems which will be assigned.

Minor for a candidate for the degree of C. E. *Professor Hendren.*

CHEMISTRY.

Opportunity is offered to a limited number of qualified students to pursue advanced work in chemistry. The minimum qualification is satisfactory completion of undergraduate courses 2 and 8 in the department of Chemistry, or their equivalent. The nature of the advanced work will be determined by individual conference.

The following courses were given in 1912-13:

a. **Analytical Chemistry.** Quantitative Analysis. Twenty-four hours per week of laboratory work throughout the year, with frequent conferences.

This course consists of a critical and comparative study of quantitative methods. Although skill in manipulation is, of course, required, stress is laid upon mastering the chemical principles involved in Analytical Chemistry, rather than proficiency in mechanical methods.

Rated as a major. *Professor White* and *Associate Professor Black.*

b. **Analytical Chemistry.** Qualitative and Quantitative. Twelve hours per week of laboratory work throughout the year, with frequent conferences.

The work of this course is based upon and is an extension of undergraduate courses 8 and 9, practice and proficiency being required and the scientific principles underlying Analytical Chemistry mastered.

Rated as a minor. *Professor White* and *Associate Professor Black.*

BIOLOGY.

1. **Animal Physiology.** This course is an extension of undergraduate course (7), the extension consisting in two extra hours of laboratory work weekly, and considerable parallel reading, partly in more advanced texts, and partly in periodical literature, following a detailed syllabus giving a time allowance to the different subjects. This course is designed especially for those who are preparing to teach physiology in High Schools. It is rated as a Graduate Minor, and may be undertaken by any student who has completed undergraduate courses (1), (2), and (3). It will not be given to less than two students. *Professor Campbell.*

2. **Vertebrate Comparative Anatomy.** In this subject two courses are offered, each rated as a Minor.

Course A is open to graduate students who took only course (3) among their undergraduate studies. It consists of undergraduate courses (4), (5), and (6), which may be taken together in one year, but are preferably spread over two. *Professor Campbell.*

Course B is for students who have taken undergraduate courses (3), (4), and (5). It is an extension of course (6), the extension consisting in two extra hours of laboratory work weekly, and considerable parallel reading in accordance with a definite syllabus. *Professor Campbell.*

BOTANY.

A minor course in **the Fungi.** Basis: undergraduate course 6. Extension as follows: (a) Three hours per week additional laboratory work. In this the student should become familiar with as much of the general technique as is laid down in the manuals.

(b) Careful study of papers, by Atkinson, Brefeld, Clinton, Salmon, Smith, Stevens, Blackman, Christman, Olive, Klebahn. *Professor Reade.*

CIVIL ENGINEERING.

Baker's Masonry Construction. Irrigation, based on Wilson, Newell. Land Drainage, Elliott, and United States Irrigation Papers. Reinforced Concrete, Turneaure, Taylor and Thompson. Hydraulics, Russell, Merriman. Lectures. Various essays and designs are required of the students.

Six hours per week. Major. *Professor Strahan.*

AGRONOMY.

1. **Soil Types of Georgia.**

(*a*) A general study of soil formation based on Soils, by Hilgard; Rock, Rock Weathering and Soils, by Merrill; Origin and Nature of Soil, by Shaler; and Disintegration of Georgia Granitic Rocks, by Watson.

(*b*) A laboratory study of the physical properties of at least two soils from the Appalachian valley, two from the Piedmont, and two from the coastal plain, with a comparative study of geological and soil areas. King's Agricultural Physics will be used as a basis for this work, and Stevenson's and Schaub's Laboratory Guides will be used as an outline for laboratory work. Soil surveys of the state made by the Bureau of Soils and geological maps will be used as the basis of a comparative study.

(*c*) A pot test to determine the influence of lime and organic matter on crop production with the six soils noted above.

Three conferences per week and at least three laboratory periods. Major. *Professor Fain.*

2. **Improvement of Seed Corn.**

An extension of the work of Agronomy 7 with additional work in the field. The work will include a review of the Experiment Station literature on the improvement of corn, the Book of Corn, edited by Myrick; Corn Plants, by Sargent; Examining and Grading Grain, by Lyon and Montgomery; and Farm Seeds, part VI, of Agricultural Botany, by Percival.

Students will be expected to make seed selections, germination tests, and review all the plat records on corn.

Two conferences per week and at least two laboratory periods. Minor. *Professor Fain.*

3. **Physical Properties of Soils.**—An extension of undergraduate courses 6 and 7, based on King's Agricultural Physics, Lyon and Fippins's Soil Management, Hilgard's Soils, and Shaler's Formation

of Soils. In addition to the laboratory and text work, field examination of the principal soil types in the Piedmont region and coastal plains of Georgia.

Two conferences per week. Minor. *Professcr Fain.*

4. **Fertilizers.**—A study of the methods of field experiments, together with the use and effect of commercial fertilizer, with especial reference to nitrogen. The course is based on Hopkins's Soil Fertility, Hall's Report of the Rothamsted Experiment Station, and the published field work of the Experiment Stations of this country. Field work will be carried on in different parts of the state of Georgia for data on the effect of varying amounts of nitrogen on crop production.

Two conferences per week. Minor. *Professor Fain.*

Note: Courses 3 and 4 may be taken together as a major course.

COTTON INDUSTRY.

1. **Cytological Aspects of Plant Breeding.** This course will be based on Flatter's "Methods in Microscopical Research" and Wilson's "Cell in Development and Inheritance," and is designed to fit the student for investigation work in the fundamental principles of breeding. The laboratory material will consist largely of cotton blooms, although other flowers will be used where it will prove beneficial to the student. Cannon and Balls will be followed in the technique of the study of the cotton bloom, while the student will be required to use as parallel reading Weismann's "Germinal Selection," Darwin and Spencer's "Pangenesis Theory," and much of the more recent literature on the theory of cell development. Three periods of two hours each of laboratory work and one lecture per week. Minor. *Professor DeLoach.*

2. **Experimental Plant Breeding.** This course will be based on "Mendel's Principles of Heredity" by Bateson, Darwin's "Plants and Animals under Domestication" with special reference to the chapters on plants under domestication, and DeVries's "Mutation Theory," two volumes. Readings from Kellog's "Darwinism To-day," Osborn's "From the Greeks to Darwin," and Brooks's "The Foundations of Zoölogy," will be required. The student will also be required to do experimental work in cotton breeding. Three hours per week. Minor. *Professor DeLoach.*

Courses 1 and 2 taken together constitute a major. The student will be required to work out some definite problem in cotton breeding and present a thesis thereon.

AGRICULTURAL CHEMISTRY.

1. **Agricultural Chemical Analysis.** This course will be based on the work offered Seniors and will be limited to the type soils of

the state. Analyses will be made of at least five types as unlike as can be obtained, and a special study will be made of the nature and character of the organic matter contained. The geological formation in the localities in which these soils are found will be studied.

Work will be done towards improving a few of the methods by which it is now difficult to duplicate results, such as that for determining humus.

Parallel reading and an acquaintance with work being carried on in other laboratories will be required. This reading will be Stockbridge's Rocks and Soils, Hopkins's Fertility, Hall's Soils, Hilgard's Soils, and the Bulletins bearing on the subject.

Wiley's Principles and Practice of Agricultural Analysis, Vol. I, and Bulletin No. 107, Official and Provisional Methods of Analysis, will be used as reference books.

Three conference hours and six laboratory periods per week. Major. *Professor Worsham.*

2. An extension of agricultural chemistry 4, for students who have had agricultural chemistry 4, and wish to pursue the work exclusively with soils, fertilizers, or food and feed stuffs. This will be left partially optional with the student. Students working with soils will be required to make three complete analyses of soils. Those working with fertilizers will be required to make an analysis of fifteen complete and ten incomplete fertilizers. Those working with feeds and foods will be required to make twenty-five analyses.

The same reference books as are used in course 1, with the addition of Vol. II of Wiley's Principles and Practice of Agricultural Analysis, and Leach's Food Inspection and Analysis, will be used in this course.

Four hours per week. Minor. *Professor Worsham.*

HORTICULTURE.

1. Junior courses Nos. 4, 5, 6, 7, 8, and 9; with selected reading from the following: The American Fruit Culturist, Thomas; Fruit and Fruit Trees of America, Downing; Plums and Plum Culture, Waugh; Plant Diseases, Duggar; The Small Fruit Culturist, Fuller; Barry's Fruit Garden, Journals, Bulletins, etc.

Four hours per week and laboratory work. Minor. *Professor McHatton.*

2. **Advanced Pomology.** This course is open to students who have specialized in Horticulture, and is based upon Bailey's Evolution of our Native Fruits and The Survival of the Unlike.

Selected reading from the following, to be mainly along the lines of origins of varieties of plants and the histories of various fruits: Plant Breeding, Bailey; Species and Varieties: Their Origin and Mutation, DeVries; Animals and Plants Under Domestication, Darwin; Origin of Species, Darwin; Heredity, Thompson; Mendelism, Punnet; Fruits and Fruit Trees of America, Downing; American Fruits and Their Culture, Hume; The Grapes of New York, Hedrick; Foundations of American Grape Culture, Munson; The Apples of New York, Beach; Journals, Bulletins, etc.

Two conference hours per week, and two laboratory periods. Minor. *Professor McHatton.*

3. **Advanced Pomology**, Course 2, with the addition of a *thesis* on some horticultural subject. This thesis is to call for not less than three laboratory periods per week and is to consist of research work to be chosen by the student with the assistance of the instructor. Major. *Professor McHatton.*

In 1912-1913 courses 2-3 consisted of a study of the origin, history, botany, culture, variability, and adaptability, of the apple. Thesis: Varieties of apples adapted to the soils and climate of Georgia.

ANIMAL HUSBANDRY.

1. Investigations of feeding problems, based on feeding tests covering periods of from 90 to 180 days, with a sufficient number of animals to give reliable results. Accurate and detailed records of kinds and amounts of feed will be kept, together with records of production. In addition a thorough study will be made of the chemical and physiological changes, reactions and processes involved in animal life, such as assimilation, disassimilation, mastication, digestion, absorption, respiration, circulation, secretion, and reproduction.

Parallel reading: Lusk's Elements and Science of Nutrition; Armsby's Principles of Animal Nutrition; Hervy's Feeds and Feeding.

Prerequisite: undergraduate courses 6 and 7.

Two lectures a week. Minor. *Professor Jarnagin.*

2. Based on undergraduate course 12. The student will be required to conduct a feeding experiment of sixty days with three groups of pigs. Group 1 is to receive no cotton seed meal. Group 2 is to receive a sufficient amount of protein in the form of cotton seed meal to make a balanced ration. Group 3 is to receive all the cotton seed meal it will consume.

Parallel reading: Henry's Feeds and Feeding; Dietvich's Swine; Experiment Station Bulletins; Report of Bureau of Animal Industry.

Two conferences a week. Minor. *Professor Jarnagin.*

VETERINARY MEDICINE.

The course consists of work in the Theory and Practice of Veterinary Medicine, including attendance upon clinics, and lectures and laboratory work in Bacteriology. It is based on undergraduate courses 5 and 6, and the student must have taken courses 1, 2, 3, and 4, or work of equal value in some other institution. Special attention is paid to the study of pathogenic bacteria, and particularly to those varieties that are the causative agents of diseases in animals. The course in Theory and Practice consists of lectures and clinical demonstrations. Students are required to attend clinics, diagnose, prescribe for, and prepare and administer medicines and treatment to clinic cases.

Texts: Law's Veterinary Medicine; Jordan's General Bacteriology; McFarland's Pathogenic Bacteria.

Two conferences and two laboratory periods a week. Minor. *Professor Burson.*

EXPENSES.

Residents of Georgia pay no tuition fees. Students who are residents of other states pay a tuition fee of $50.00 per annum. The following estimate of expenses for a student rooming in a dormitory and boarding at Denmark Hall includes all necessary items except clothing and railway fare:

Matriculation fee (paid on entrance)	$ 10.00
Library fee (paid on entrance)	5.00
Board (monthly, in advance, $20.00)	180.00
Furnishing room in dormitory (estimated)	14.00
Laundry (estimated at $1.50 per month)	13.50
Room rent, lights and attendance, ($2.50 per month)	22.50
Fuel (estimated)	10.00
Books and stationery (estimated)	20.00
	$275.00

For laboratory fees in Chemistry, Zoölogy, Physiology, Botany, and Physics, see p. 46.

GRADUATE COURSES IN THE SUMMER SCHOOL.

The University will permit a graduate student, eligible to candidacy for a second degree, to secure the Master's degree upon the successful completion of graduate courses pursued during not less than three Summer Sessions. During the periods intervening between the Summer Sessions (and, if necessary, for the year following the third Summer Session), the candidate must continue his studies under the direction of the professors in charge of his several courses. In the case of each course thus given the professor will submit to the Committee on Graduate Courses for their approval a definite statement of the work to be done by lectures and conferences and that to be done by the candidate *in absentia.* And this apportionment must be approved by the University Faculty.

A thesis is required by the Faculty in connection with each Major course offered in the Summer School.

The University does not undertake to provide graduate courses in the Summer School, such provision being in the hands of the Board of Directors of the Summer School. But the University guarantees the quality of such graduate courses as are given.

Full particulars of the Summer School courses will be found in the special Bulletins of the Summer School.

FRANKLIN COLLEGE

THE COLLEGE OF ARTS.

STAFF OF INSTRUCTION.

D. C. BARROW, LL.D., Chancellor.

C. M. SNELLING, Sc.D., President, and Professor of Mathematics.

H. C. WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry, and Terrell Professor of Agricultural Chemistry.

J. P. CAMPBELL, Ph.D., Professor of Biology.

W. H. BOCOCK, LL.D., Milledge Professor of Ancient Languages.

J. H. T. McPHERSON, Ph.D., Professor of History and Political Science.

W. D. HOOPER, A.M., Professor of Latin.

J. MORRIS, A.M., Professor of English Language and Teutonic Philology.

J. LUSTRAT, Bach. ès Lett., Professor of Romance Languages.

R. E. PARK, A.M., Litt.D., Professor of Rhetoric and English Literature.

T. J. WOOFTER, Ph.D., Professor of Philosophy and Education.

J. S. STEWART, A.M., Professor of Secondary Education.

S. V. SANFORD, A.B., Junior Professor of Rhetoric and English Literature.

L. L. HENDREN, Ph.D., Professor of Physics and Astronomy.

J. M. READE, Ph.D., Professor of Botany.

W. O. PAYNE, A.M., Associate Professor of History and Political Science.

R. P. STEPHENS, Ph.D., Associate Professor of Mathematics.

H. V. BLACK, Ph.D., Associate Professor of Chemistry.

R. P. BROOKS, B.A., (Oxon.), Ph.D., Associate Professor of Georgia History and Sociology.

L. R. GEISSLER, Ph.D., Associate Professor of Psychology.

R. E. CURTIS, Ph.D., Associate Professor of Applied Economics.

R. L. McWHORTER, A.M., Adjunct Professor of Latin and Greek.

M. D. DuBOSE, A.M., Adjunct Professor of English Language and Teutonic Philology.

S. M. SALYER, A.B., Adjunct Professor of Rhetoric and English Literature.

R. S. POND, Ph.D., Adjunct Professor of Mathematics.
C. A. WELLS, M.S., Instructor in Chemistry.
E. T. MILLER, B.S., Instructor in Physics.
W. T. TURK, A.B., Instructor in Romance Languages.
P. F. BROCK, A.B., Tutor in Rhetoric and English Literature.
D. R. CUMMING, A.B., Tutor in Mathematics.

SCHOOLS OF FRANKLIN COLLEGE.

(Arranged in the order of official seniority of the professors).

Chemistry.
Biology.
Greek Language and Literature.
History and Political Science.
Mathematics.
Latin Language and Literature.
English Language and Teutonic Philology.
Romance Languages.
Rhetoric and English Literature.
Philosophy and Education.
Physics and Astronomy.
Botany.
Geology.

From these Schools systematic courses of instruction are arranged, leading to degrees, as described below.

ENTRANCE SUBJECTS.

The following subjects are required for admission to Franklin College: English, History, Plane Geometry, High School Algebra, Latin, and Greek or French or German. (For details as to subjects and methods of admission, see pages 22-44.

ADMISSION TO THE SOPHOMORE CLASS.

For admission to the Sophomore Class, the student must offer in addition to the subjects mentioned above, the equivalent of the courses in Mathematics, Latin, English, History, and Greek or French or German pursued by the Freshman Class and given in the table below. In this table the figure attached to the name of the subject refers to the course described under that number in the detailed account of the courses offered in that School. Thus, "English 1" in the table below means the course in Composition and Rhetoric described in the statement of the School of Rhetoric and English Literature on page 85. The figure at the end of the line means the number of recitation hours per week in that course.

DEGREE.

The one undergraduate degree given in Franklin College is that of Bachelor of Arts. Options in the Junior and Senior classes must be selected after conference with and with the consent of the President of the College.

The subjects entering into the course for this degree are given below:

BACHELOR OF ARTS.

Freshman.		Sophomore.	
English 1,	3	English 2,	3
Greek 3	4	Greek 4 or French* 4 or German* 4,	3
or French* 3 or German* 3	3	History 4,	3
Georgia History	1	Latin 2,	3
History 2,	3	Mathematics 3, 4,	3
Latin 1,	4	Physics 1‡ or 2,	3
Mathematics 1, 2,	3		
Military Science	1		
	18		18

*If Greek 3 and 4 are not offered both French and German must be substituted. The candidate may, in this case, offer German 3 and 4, and also French 5 and 6, in addition to the five required Junior and the five required Senior subjects; or he may offer French 3 and 4, and also German 5 and 6, in addition to the five required Junior and the five required Senior subjects. French 5, 6, or German 5, 6, thus offered will satisfy the requirements of Group I. in the Junior and Senior years.

‡ Physics 2 is required of students who have received one unit entrance credit for Physics.

Junior.

I.	English Language 1,	3	One required; three may be taken.
	French 5,	3	
	German 5,	3	
	Greek 5,	3	
	Latin 3,	3	
II.	Botany 1,	3	One required; two may be taken.
	Zoölogy 3,	3	
	Chemistry 2,	3	
	Physics 4 or 5,	3	
	Psychology 5,	3	
III.	English Literature 3-4, or 8-9,	3	One required; three may be taken.
	History 5-6, or 10, or 11,	3	
	Philosophy 1, 2, or 3, 4,	3	
	Economics 5,	3	
	Education 1,	3	
	Education 5, 6	3	
	Mathematics 5,	3	
	Spanish 1,	3	

Five subjects, fifteen hours, required.

Senior.

I.	English Language 2,	3	One required; three may be taken.
	French 6,	4	
	German 6,	3	
	Greek 5 or 6,	3	
	Latin 4,	3	
II.	Botany 2,	3	One required; two may be taken.
	Zoölogy 3 or 4-5,	3	
	Chemistry 2, 3, 4 or 5,	3	
	Physics 2, 5 or 6,	3	
	Psychology 6,	3	
III.	Economics 6, 7,	3	One required; two may be taken.
	Economics 8, 9, 10,	3	
	Economics 11, 12, 13,	3	
	Philosophy 3-4, 5, or 6,	3	

Astronomy and Geology	3
English Literature 3-5, or 3-4, or 6-7,	3
History 5, 6, or 8, 9, or 10,	3
Economics 6, 7,	3
Economics 8, 9, 10,	3
Economics 11, 12, 13,	3
Italian 1,	3
French 5,	3
Latin 3,	3
Greek 1 or 2,	3
German 5,	3
Mathematics 6, 8,	3
Mathematics 7, 9,	3
Spanish 1,	3
Education 1-2,	3
Education 4,	3
Education 5-6,	3
Education 9,	3
Psychology 5, or 6,	3
Philosophy 3-4,	3
Philosophy 8,	3
Philosophy 9,	3

Note.—No student may take more than nine hours in one year in the Schools of Philosophy and Education. If Psychology has been selected in Group II in the Junior year, Psychology may not be offered in Group II in the Senior year.

The following arrangements of subjects in the Junior and Senior classes are offered for the guidance of students. If other arrangements are desired, the choice of subjects must be submitted to the President for approval.

Junior.

A. (Classical).	B. (Math.-Classical.)	C. (Hist.-Polit.)
Latin, 3.	Mathematics, 5.	History, 5, 6.
Greek, 5.	Latin, 3.	Latin, 3.
French, 5.	or	or
or	Greek, 5.	Mathematics, 5.
German, 5.	French, 5.	French, 5.
Chemistry, 2.	or	or
Elective, from Group III.	German, 5.	German, 5.
	Chemistry, 2.	Chemistry, 2.
	Elective, from Group III.	Elective.

D. (Philos.-Pedag.)	E. (English-Teutonic).	F. (English-Romance).
Philosophy, 1, 2.	English, 3-4, or 8-9.	English, 3-4, or 8-9.
Education, 1.	German, 5.	French, 5.
History, 5-6, or 10.	English Language, 1.	Latin, 3.
Chemistry, 2.	Chemistry, 2.	Chemistry, 2.
Elective, from Group I.	Elective.	Elective.

Senior.

A. (Classical).	B. (Math.-Classical).	C. (Hist.-Polit.)
Latin, 4.	Mathematics, 6, 8, or 7, 9.	History, 8-9, or 10.
Greek, 5 or 6.	Latin, 4.	Economics, 6, 7.
French, 5 or 6.	or	French, 5 or 6.
or	Greek, 5 or 6.	or
German, 5 or 6.	French, 5 or 6.	German, 5 or 6.
Botany, 1.	or	Botany, 1.
or	German, 5 or 6.	or
Zoology, 3 or 4-5.	Botany, 1.	Zoölogy, 3 or 4-5.
Elective, from Group III.	or	Elective.
	Zoölogy, 3 or 4-5.	
	Elective, from Group III.	

D. (Philos.-Pedag.)	E. (English-Teutonic).	F. (English-Romance).
Philosophy, 3-4, 5, 6. or 1-2.	English, 5 or 3, 4, or 6, 7.	English, 5, or 3, 4, or 6, 7.
Education, 1, 2, 3, or 4.	German, 5 or 6.	French, 6.
or	English Language, 2.	Spanish, 1.
Economics, 6. 7.	Botany, 1.	or
English, 9, 10.	or	Italian, 1.
Botany, 1.	Zoölogy, 3 or 4-5.	Botany, 1.
or	Elective.	or
Zoölogy, 3 or 4-5.		Zoölogy, 3 or 4-5.
Elective, from Group I.		Elective.

COURSES OF INSTRUCTION

CHEMISTRY.

H. C. WHITE, Professor.
H. V. BLACK, Associate Professor.
C. A. WELLS, Instructor.

The following courses are offered:

2. **Inorganic Chemistry,** College Course. The hours per week of lectures and recitations and two laboratory periods for three terms. Text: Kahlenberg; Outlines of Chemistry.

3. **Organic Chemistry.** College Course. Three hours per week of lectures and recitations and two laboratory periods for three terms. Text: Remsen; Organic Chemistry.

4. **Industrial (including Agricultural) Chemistry.** Three hours per week of lectures and recitations for three terms. Texts: Professor's Notes; Thorpe; Industrial Chemistry.

5. **Physical Chemistry.** Three hours per week of lectures and recitations and two laboratory periods for three terms.

A fee of $2.50 is charged for chemicals used in the laboratories in courses 2, 3, and 5. Necessary apparatus is furnished students and breakage must be paid for at the end of the course.

BIOLOGY.

JOHN P. CAMPBELL, Professor.
PAUL L. HUDSON, Fellow.

In this school, the following courses are offered for the coming year:

3. **Invertebrate Zoölogy.** This course is based upon the laboratory study of a selected series of types representing all of the leading invertebrate phyla of the animal kingdom. Arthropods are studied in the first term; Protozoa, Porifera, Coelenterates, and some of the smaller phyla in the second; while Annulata, Echinoderms, and Mollusca take up the third. This course is intended to give students a broad outlook on the animal kingdom as a whole, and to this end many theoretical questions are taken up in connection with those animals which best serve to illustrate them. Three hours weekly with laboratory work additional. *Optional to Juniors.*

4. **Vertebrate Zoölogy.** The methods in this course are the same as in course (3). The different classes of Vertebrates are studied by means of selected types, but this is supplemented by extended reading, museum work, and lectures profusely illustrated with lantern slides.

Three hours weekly with additional laboratory work during the first and second terms.

5. **Comparative Osteology.** The comparative structure of the skeletons in the different vertebrate classes is taken up in this course. Special stress is laid upon the broader features of theoretical importance, but sufficient detail will be brought out to make this course valuable to the prospective medical student. Two class hours and two laboratory periods during the third term.

Note.—Courses (4) and (5) together make up a second year in Zoölogy which is open to any student who has completed course (3).

GREEK.

W. H. BOCOCK, Professor.
R. L. McWHORTER, Adjunct Professor.

The standard of this School depends largely upon the character of work done in the preparatory schools of Georgia. The requirements for admission, given elsewhere, are based directly upon that work. With this basis, the guiding principles of the courses given to the lower classes are the early mastery of the forms, a minimum of syntax, the reading of the language in mass as rapidly as is consistent with thoroughness.

In the higher classes the standard syntax of Attic prose is treated systematically, and the attempt is made to introduce the student to an appreciation of the artistic forms of Greek literature. There is in all classes some practice in reading at sight. Exercises are given in translating from English into Greek, both in order to sharpen observation of the Greek read, and as an indispensable aid to exact scholarship. Lectures on Metres are given in connection with the reading of the poets, with practice in the recitation of the Dactylic Hexameter, the Iambic Trimeter, and other common verse-forms.

For the study of geography and history, and for the archaeological illustration of the authors read, the lecture room and library are provided with a small collection of books, maps, and photographs.

1-2. (For beginners. See requirements for entrance, page 37). (1) Grammar. (2) Xenophon's Anabasis, Books I, II, III. Six hours a week. *Professor Bocock.*

2. Xenophon's Anabasis, Books I, II, III, with grammatical review. Three hours a week. *Adjunct Professor McWhorter.*

2*a*. Xenophon's Anabasis, Book III, with grammatical review. Three hours a week for the first term. *Adjunct Professor McWhorter.*

2*b*. Grammar. Two hours per week. *Adjunct Professor McWhorter.*

(For other elementary courses see special Bulletin of the Summer School.)

3. Xenophon's Anabasis, Book IV. Homer, Iliad or Odyssey. Geography of Hellas. Four hours a week. Required unless French and German be substituted. *Professor Bocock* and *Adjunct Professor McWhorter.*

4. Selections (varying from year to year) from Homer, Herodotus, Xenophon, Lysias. History of the Literature. Three hours a week. Required unless French and German be substituted. *Professor Bocock.*

5. Introduction to the study of Greek Tragedy: Euripides. Selections from Plato. History of the Literature. Three hours a week. Optional for Juniors or Seniors. *Professor Bocock.*

6. The study of Tragedy (continued from course 5). Selections from the Orators and Thucydides. Summary review and extension of various parts of previous courses. Three hours a week. Optional for Seniors. *Professor Bocock* and *Adjunct Professor McWhorter.*

7. Selections from the New Testament. Hours to be arranged. Optional. *Professor Bocock.*

A major course is offered in the Graduate School. See p. 60.

HISTORY AND POLITICAL SCIENCE.

J. H. T. McPHERSON, Professor.
W. O. PAYNE, Associate Professor.
R. P. BROOKS, Associate Professor.

1. **Greek and Roman History,** with a brief review of the early Oriental nations, and continued through the period of mediaeval history ending with the Treaty of Verdun. Optional for Freshmen who do not offer Ancient History for entrance. Three hours per week throughout the year. Text: Myers's "Ancient History." *Associate Professor Payne.*

2. **European History.** In this course one or more characteristic periods of European History are studied intensively. The periods considered and texts used are changed from year to year. During the present session the Eighteenth and Nineteenth Centuries were studied, with Robinson and Beard, "The Development of Modern Europe," as text. Required of Freshmen, except (1) those admitted to History 1, and (2) Freshmen in the B.S. in Agriculture Course. Three hours weekly throughout the year. Four sections. *Professor McPherson, Associate Professors Payne and Brooks.*

3. **History of Georgia.** An introductory lecture course of one hour per week throughout the year, covering the more important aspects of the history of the State from colonial times to the present. Collateral reading and map work required. Required of Freshmen. *Associate Professor Brooks.*

4. **Political and Constitutional History of England.** Especial attention is paid to the development of Parliament, the Cabinet, and the phases of local government — township, parish, manor, hundred, and county — with the object of laying a thorough foundation for the subsequent study of American institutions. The pro-

gress of contemporary Europeans events is kept constantly in view. Three hours per week throughout the year. Text: Gardiner's "History of England." Required of Sophomores. Three sections. *Associate Professor Payne.*

5. **Political History of the United States.** An advanced course based upon the "Epoch Series of American History." While liberal attention is given to fact and detail, the main stress is thrown upon the philosophy of the dramatic history of our national evolution. Three hours per week, first and second terms. Optional for Juniors and Seniors. *Professor McPherson.*

6. **Constitutional History of the United States.** An historical and interpretative study of American institutions. Three hours a week, third term. Text: Thorpe's Constitutional History of the United States. Optional for Juniors and Seniors. *Professor McPherson.*

7. **The History of the Civil Law of Rome.** Under the auspices of the faculty of the Law School a course of lectures is given each year upon the historical development of the Roman Law and its influence upon modern legal systems. Spring term. Required of Senior Law students. *Professor McPherson.*

8. **The French Revolution and Napoleonic Era.** Advanced course. Optional for Seniors. After a preliminary study of European conditions on the eve of the Revolution, the progress of events is followed in detail to the Congress of Vienna. Text: "Revolutionary Europe," by Morse Stephens. Three hours a week, first half year. *Associate Professor Payne.*

9. **Europe in the Nineteenth Century.** An advanced course. Optional for Seniors who have taken Course 8. The progress of events is followed in detail by text and lectures from the Congress of Vienna to the present. Text: "Europe since 1815," by Charles Downer Hazen. Three hours a week, second half year. *Associate Professor Payne.*

10. **History of the South.** The emphasis will be laid on the economic and social development of the South. The course is designed not only to give the students a general survey of Southern history, but to familiarize them with the bibliography of the subject. Each student will be assigned topics for reports, and instruction will be given in historical method and the use of historical materials. Two lecture hours and one seminar hour, throughout the year. Optional for Juniors and Seniors. *Associate Professor Brooks.*

11. **Comparative Politics.** A sketch of the constitutional and administrative laws and political institutions of the leading nations of Europe, followed by a study of the theoretical and practical politics of the United States. Three hours a week. Optional for Seniors. *Professor McPherson.*

MATHEMATICS.

C. M. SNELLING, Professor.
R. P. STEPHENS, Associate Professor.
R. S. POND, Adjunct Professor.
D. R. CUMMING, Tutor.

[Of the following, Courses 1, 2, 3, 4, are required of all students for graduation with the degree of A.B. or B.S. (Gen.). For other degrees, see requirements elsewhere].

1. **Trigonometry.** A course in Plane and Spherical Trigonometry. Three hours per week for the first two terms. Texts: Murray's. *Professors Snelling, Stephens,* and *Pond,* and *Mr. Cumming.*

2. **Graphical Algebra.** This will include a study of coördinates, the plotting of curves, and the derivation of the equations of the straight line and the circle. Three hours per week for the third term. *Professors Snelling, Stephens,* and *Pond,* and *Mr. Cumming.*

3. **Analysis.** The work of Course 2 will be continued by the study of the equations of the conics and by an introduction to the Calculus. Three hours per week for the first half year. Text: Smith and Granville's. *Professors Stephens,* and *Pond,* and *Mr. Cumming.*

[Note: In 1912-13, Courses 2, 3 were combined into one course and given as Course 3*a*.]

4. **Advanced Algebra.** The following topics will be treated: mathematical induction, binomial theorem, complex numbers, determinants, theory of equations, partial fractions, series, and logarithms. Three hours per week for the second half year. *Professors Stephens,* and *Pond,* and *Mr. Cumming.*

4*a*. **Insurance.** An elementary course in probabilities, series, and other topics in algebra and their applications in the calculation of annuities, premiums, etc. Three hours per week the second half year. *Professor Stephens.*

(Note: Course 4*a*, in place of Course 4, will be required of those who are candidates for a degree in business administration.)

5. **Calculus.** A course in Differential and Integral Calculus. Three hours per week through the year. Text: Osgood's. *Professor Pond.*

6. **Analytic Geometry.** An advanced course based on Salmon or other text of a similar character. Three hours per week for first half year. *Professor Pond.*

7. **Differential Equations.** An elementary course in ordinary differential equations. Three hours per week for first half year. Text: Cohen's. *Professor Stephens.*

8. **Theory of Equations.** A course based on Burnside and Panton. Three hours per week for the second half year. *Professor Pond.*

9. **Theoretical Mechanics.** An elementary course. Three hours per week for the second half year. Text: Jeans's. *Professor Stephens.*

(Note: Courses 1, 2, 3, 4, 5, 7, 9 are required of candidates for degrees in Civil and Electrical Engineering. Candidates for the B. S. degree who have mathematics for their major must take Course 5 in the Junior year and are advised to take three hours more in the same year, leaving only three hours for the Senior year).

LATIN.

W. D. HOOPER, Professor.
R. L. McWHORTER, Adjunct Professor.

1. **Livy; Horace.** In addition to the reading of the twenty-first and twenty-second books in Bechtel's Selections from Livy, the syntax is studied formally, and exercises are given in translation from English into Latin, to illustrate the usages. There is also constant practice in reading at sight. The third term is devoted to an introduction to Horace. Four hours per week. Required of Freshmen. *Professor Hooper,* and *Adjunct Professor McWhorter.*

2. **Horace:** selected Odes; **Cicero,** de Officiis, Book I. Lectures on metres are given in connection with the reading of the Odes, and practice in metrical reading is constant. There is also practice in reading at sight, and written exercises in translation from English into Latin are required weekly. Three hours per week. Required of Sophomores. *Professor Hooper,* and *Adjunct Professor McWhorter.*

3. **Horace:** selected Satires and Epistles; **Tacitus,** Germania and Agricola; **Pliny:** selected letters; **History of the Literature.** During the first term, the Satires and Epistles of Horace are read somewhat more rapidly, with more attention to literary quality, and the history of the literature is studied. The second and third terms are devoted to the Germania and Agricola of Tacitus, and Pliny's letters. More attention is paid to reading at sight, and some of the reading is parallel. Exercises in translation from English into Latin are continued. Three hours per week. Optional for Juniors. *Professor Hooper.*

4. Representative plays of Platus and Terence are read during the first term, both in class and in private, and there are lectures on the drama. During the second and third terms, the reading is chosen from a variety of authors not studied in the lower classes. Three hours per week. Optional for Seniors. *Professor Hooper.*

For Graduate Courses, see p. 60.

ENGLISH LANGUAGE AND TEUTONIC PHILOLOGY.

JOHN MORRIS, Professor.
M. D. DuBOSE, Adjunct Professor.

1. **Old and Middle English** (Phonology, Inflexions and Translation).—Text-books: Smith's Old English Grammar, Chaucer's Prologue and Knight's Tale, with lectures based on ten Brink's "Chaucers Sprache und Verskunst." Three hours a week. Optional for Juniors. *Professor Morris.*

2. **Old English Epic Poetry, Gothic and Comparative Grammar.** Text-books: Wyatt's Beowulf, Wright's Gothic Primer. Lectures based on Streitberg's "Urgermanische Grammatik." Three hours a week. Optional for Seniors. *Professor Morris.*

3. **A Graduate Course** will be offered in case there are any applications for it before October 1.

German.

1. **German 1** is a course for beginners who are conditioned in German and wish to substitute both German and French for Greek in the A.B. degree. For 1912-13 this course comprised an elementary grammar and reader, with daily written and oral exercises in parsing and in translation from English into German. Three hours per week. *Professor Morris* and *Adjunct Professor DuBose.*

2. **German 2** continues the work of German 1, and completes the requirement for entrance given on page 37. The course consists of translation of simple texts, and exercises in both speaking and writing German. Three hours per week. *Professor Morris* and *Adjunct Professor DuBose.*

3. **German 3** (*a*). Grammar completed. About 225 pages of narrative prose and 225 pages of elementary prose. Conversational work continued. Three hours per week. Optional for Freshmen. *Professor Morris* and *Adjunct Professor DuBose.*

3. **German 3** (*b*). A commercial course. A careful study of business terms and idiomatic phrases, through reading technical articles, writing business letters, and conversations upon matters pertaining to commercial life. Collateral reading practically the same in amount as that required in German 3 (*a*). Completion of a standard grammar. The work is based upon Kutner's Commercial German. *Adjunct Professor DuBose.*

4. **German 4** consists of an outline of the History of German Literature with extensive readings from the authors mentioned. Oral and written exercises continued. Three hours per week. Optional for Sophomores. *Professor Morris.*

5. **German 5** is an elementary course offered as one of the Junior language options. After an oral introduction of several weeks, given

exclusively in German, the class takes up a grammar or method book and works carefully through all the exercises, both oral and written. Conversation is also continued with the aid of such text books as Guerber's Märchen und Erzählungen, Wesselhoeft's German Exercises, Carruth's Reader, Stern's Studien und Plaudereien or Newson's First German Book. Three hours per week. Optional for Juniors. *Professor Morris.*

6. **German 6** is a continuation of the preceding course. The class translates from 600 to 1,000 pages of prose texts. Most of this work is done outside of the class room, but a careful examination is held on each book when completed. Practice in speaking and writing German continues throughout the year. Three hours per week. Optional for Seniors. *Professor Morris.*

ROMANCE LANGUAGES.

J. LUSTRAT, Professor.
W. T. TURK, Instructor.

French.

1. **French 1** is a course for beginners who are conditioned in French and wish to substitute both French and German for Greek. The course consists of careful drill in pronunciation, the rudiments of grammar, the study of regular and irregular verbs, the inflection and use of personal pronouns, the rudiments of syntax, dictation, easy exercises of translation from English into French, conversation, and the reading of about 275 duodecimo pages of easy prose. Three hours per week.

2. **French 2** is the continuation of course 1, for students who are conditioned in French and wish to substitute both French and German for Greek. It will comprise the reading of about 400 pages of easy modern prose, constant practice in translating into French easy English prose, dictation, short drill in grammar and syntax, full study of all irregular verbs, and conversation. Three hours per week.

3. **French 3** consists of a study of grammatical difficulties, idioms, and provincialisms. Compositions and essays in French. Reading from 600 to 1,000 pages of prose and poetry. Continuation of translation from English into French. Conversational French. Three hours per week. Optional for Freshmen.

4. **French 4** consists of the reading of from 1,000 to 1,200 pages of standard French, classical and modern; compositions and essays in French; translation from English into French; study of the classical writers, with parallel reading of some of their works; study of French Literature, through texts and lectures in French; conversational French. Three hours per week. Optional for Sophomores.

5. **French 5** is an elementary course offered as one of the Junior language options. In this course the various inflections, forms of words, verbs, regular and irregular, and constructions of sentences are taught from the beginning, but systematic study of the grammar is not begun until the second half-year, at which time reading, translation, and writing of letters in French are also begun. About 200 pages of easy French prose are read, and there is practice in conversational French. Three hours per week. Optional for Juniors.

6. **French 6** is a continuation of French 5. It consists of a thorough study of grammar and syntax; translation from English into French; dictation; French composition; the reading of about 1,000 pages of standard authors, classical and modern; parallel reading; and conversational French. Three hours per week. Optional for Seniors.

Spanish.

1. **Spanish** 1. Three hours per week. Introductory Spanish course, based upon Natural Method and the most essential rudiments of grammar. Inflections, forms, verbs, and syntax are carefully taught from the beginning. Study of grammatical difficulties. Translation from English into Spanish. Spanish Composition. Reading of masterpieces of Spanish literature. Parallel reading. The texts chosen for reading may vary from year to year.

Italian.

Three hours per week. A one year course is offered in this subject. It is realized that a good reading knowledge of Italian can be acquired by properly prepared students in one year. With this in view, reading on preparation and at sight forms the bulk of the instruction. So much grammatical work is done as may be required for the attainment of this object. Italian grammar by Grandgent. Other texts may vary from year to year.

RHETORIC AND ENGLISH LITERATURE.

R. E. PARK, JR., Professor.
S. V. SANFORD, Junior Professor.
S. M. SALYER, Adjunct Professor.
P. F. BROCK, Tutor.

1. **Composition and Rhetoric.** Detailed study and practice in construction and kind of composition. This course will involve continual practice in writing and some work in rhetorical analysis. Lectures, themes, daily exercises. Required of Freshmen. Three hours a week. *Professor Park* and *Mr. Salyer.*

2. **English and American Literature.** The principles of literary criticism and the practical applications of these principles to master-

pieces of authors studied with reference to (1) elements of literature, (2) species of literature, (3) historical development. The object of this course will be to give to the student a general view of the history and development of literature, with more detailed knowledge of certain periods. Throughout the course much attention will be devoted to the writing of essays as a means of training the student to appreciate and to express his appreciation of the literature studied. Required of Sophomores. Three hours a week. *Professor Sanford* and *Mr. Salyer.*

3. **The Short-Story.** Its history, development, and structural analysis. This course is to be taken in connection with course 4. Optional for Juniors and Seniors. Three hours a week, first term. *Professor Sanford.*

4. **The Novel.** The development of the English novel. Study of representative novels: Dickens, Thackeray, Eliot, Hawthorne, and others. Frequent writing of brief papers on subjects involving collateral readings in the authors discussed. Optional for Juniors and Seniors. Three hours a week, second and third terms. *Professor Sanford.*

5. **The English Drama.** Specimens of the pre-Shakespearean drama, and the study of selected plays from Marlowe to the present time. Optional for Seniors. Three hours a week. Preparation of papers on the sources, structure and literary qualities of the plays studied. *Professor Park.*

6. **Advanced Composition and Rhetoric.** This course is designed for those students who have already acquired a considerable knowledge of the working principles of Rhetoric, but who wish to acquire greater ease and accuracy of expression. Optional for Seniors. Three hours a week, first and third terms. *Professor Sanford..*

7. **English Essayists.** Study of the great essay writers of the eighteenth and nineteenth centuries. This course is designed especially for students of prose composition, to be taken in connection with Course 6. Optional for Seniors. Three hours a week, second term. *Professor Sanford.*

8. **The English Romantic Movement.** This course traces the history of English Romanticism from the first half of the eighteenth century to its culmination in the poetry of the early part of the nineteenth century. Optional for Juniors. Three hours a week, first and second terms. *Mr. Salyer.*

9. **Principles of English Versification.** Lectures on Poetics, the nature of English verse, from an aesthetic as well as a structural point of view, with practical exercises in scanning English metres. Optional for Juniors. Three hours a week, third term. *Mr. Salyer.*

PUBLIC SPEAKING.

Work in this Department is optional with all classes.

(The Department of Public Speaking is at present under the supervision of the Department of Rhetoric and English Literature).

Freshman. Declamations and Interpretative Readings. One hour per week throughout the year.

Sophomore. Declamation and Interpretative Readings varied with Practice and Argumentation and Debate, both oral and written. One hour per week throughout the year.

Junior. Argumentation and Debate, with practice in the writing and delivery of Orations. One hour per week throughout the year.

Senior. Argumentation and Debate, with practice in the writing and delivery of Orations. One hour per week throughout the year.

PSYCHOLOGY, PHILOSOPHY AND EDUCATION.

T. J. WOOFTER, Professor.
J. S. STEWART, Professor.
L. R. GEISSLER, Associate Professor.
————————, Associate Professor.
————————, Student Assistant.

PSYCHOLOGY.

1. **Elementary Psychology.** An introductory course covering the essentials of general psychology. Three hours a week first half year. *Professor Geissler.*

2. **Educational Psychology.** A study of mental development with especial attention to the adolescent period. Three hours a week second half year. *Professor Geissler.*

5. **Principles of Psychology.** A course taking up in lectures, recitations, and experiments the various mental activities.

Three hours a week throughout the year with laboratory work additional. This may be taken as a beginning course but not along with Psychology 1, and may be counted as a science in Group 2. *Professor Geissler.*

6. **Experimental Psychology.** An advanced course of laboratory experiments. Laboratory work and conferences the equivalent of a three-hour credit throughout the year. Prerequisite, Psychology 1 or 5. This may be counted as a science in Group 2. *Professor Geissler.*

7. **Advanced Psychology.** Graduate Course. See Graduate School.

PHILOSOPHY.

3. **Logic.** A study of both deductive and inductive logic. Three hours a week first half year. *Professor Woofter* or ————.

4. **Ethics.** A study of human conduct. The moral aspect of present-day problems of society, democracy, and human life generally. Three hours a week second half year. *Professor Woofter* or ————.

8. **History of Philosophy.** A study of the movements of thought and an introduction to the great thinkers of the world. Some special study of the modern field. Three hours a week throughout the year. Senior or Graduate course. *Professor Woofter* or ————.

9. **Social Philosophy.** A study of social organization and evolution. Three hours a week throughout the year. *Professor* ————.

EDUCATION.

1. **History and Principles of Education.**

(a) A study of the educational ideals and achievements of the great peoples of the world. Three hours first half year.

(b) A fuller study of special topics and educational classics bearing on modern principles and practices. Three hours second half year. *Professor Woofter.*

2. **Educational Psychology.** A study of mental development with especial attention to the adolescent period; also of such fields as instinct, memory, imagination, thought processes, emotion, will, and character. Three hours a week second half year. *Professor Geissler.*

4. **Secondary Education.** The American High School, its development, organization, courses of study, methods of teaching, and administration. A comparison with secondary schools in leading foreign countries. Three hours a week throughout the year. *Professor Stewart.*

5. **Educational Sociology.**

(a) Elementary Sociology. An introduction to the study of society and modern social problems. Social function of education.

(b) Rural Sociology. A study of rural conditions and a constructive program of betterment. Three hours a week first half year. *Professor Woofter* or *Professor* ————.

6. **Vocational Education.** Its development in various countries and its function in a democracy, with especial attention to **Agricultural Education.** Three hours a week second half year. *Professor Woofter* or *Professor* ————.

9. **General Sociology.** A study of social organization and evolution, of social problems, and of education as an agency of social control and social progress. Three hours a week throughout the year. Probably given 1913-14.

10. **Philosophy of Education.** A graduate course; open to seniors by special permission. Probably not given 1913-14.

Note.—See Peabody School of Education for fuller outlines and other courses. All courses in the School of Education are open to election for students in any department of the University.

It is suggested that students preparing to teach should elect Psychology 1-2, and at least two courses from Education 1, 4, and 5-6. Philosophy 3-4 and Education 9 are also valuable.

PHYSICS AND ASTRONOMY.

L. L. HENDREN, Professor.
E. T. MILLER, Instructor.
GRADY PADGETT, Fellow.

Physics 1. Elementary Physics. In this course especial emphasis is laid upon the applications of the general principles to practical life. Text-book: Mann & Twiss, Physics, with special laboratory notes. Two hours per week recitation and three hours per week laboratory work. Required of all Sophomores who have not received credit for entrance of one unit in Physics.

Physics 2. Elementary Physics. A course in general Physics similar to but somewhat more advanced than Physics 1 and requiring as a prerequisite one unit of Physics work in the High School. Three hours per week recitation and two hours per week laboratory work. Required of all Sophomores who have received credit for entrance of one unit in Physics.

Physics 3. Physical Measurements. This is a laboratory course requiring one double period each week and can be taken as extra work parallel with either Physics 1 or 2. For details see A. & M. College announcements in Physics.

Physics 4. An advanced course in Mechanics, Molecular Physics, Electricity and Magnetism. Prerequisites: Physics 1 or 2 and Plane Trigonometry. Three hours per week recitation and two hours per week laboratory work. Optional for Juniors and Seniors. Not given in 1913-14.

Physics 5. An advanced course in Heat, Sound, Light and Electromagnetic Waves. This course with Physics 4 covers the ground of general Physics. Prerequisites: Physics 1 or 2 and Plane Trigonometry. Three hours per week recitation and two hours per week laboratory work. Optional for Juniors and Seniors.

Physics 6. Lectures, Demonstrations, Recitations and Laboratory work in the Electromagnetic Theory of Light, the Discharge of Electricity through Gases and the Electron Theory of Electricity and Matter. Prerequisites: Physics 4 and 5, Inorganic Chemistry and the Calculus. Three hours per week recitation and two hours per week laboratory work. Optional for Seniors.

Astronomy 1. Text-book: Moulton's Introductory to Astronomy.

Lectures and recitations designed to give the student a general idea of Astronomy. Opportunity will be given for observations with a good three and a half inch telescope. Three hours per week recitation first half year. Optional for Seniors.

Note.—A laboratory fee of three dollars is required for courses 1, 2, 4 and 5.

BOTANY.

J. M. READE, Professor.
PAUL TABOR, Student Assistant.

The courses in Botany are optional studies for candidates for the degree of A. B. For a statement of the work offered, see the State College announcement.

GEOLOGY.

Vacant.*

1. **General Geology.** Three hours per week, second half-year. The course of instruction is at first a general one, embracing the study of the distinguishing properties of minerals and common rocks, the decay of rocks, and the formation of soils. Following this is a more extended course of Structural, Dynamical, and Historical Geology.

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*Temporarily in charge of the Professor of Chemistry.

COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS

I. THE COLLEGE OF SCIENCE AND ENGINEERING.

STAFF OF INSTRUCTION.

D. C. BARROW, LL.D., Chancellor.

A. M. SOULE, Sc.D., President, and Dean of the College of Agriculture.

H. C. WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry, and Terrell Professor of Agricultural Chemistry.

J. P. CAMPBELL, Ph.D., Professor of Biology.

C. M. STRAHAN, C. and M.E., Sc.D., Professor of Civil Engineering.

J. H. T. McPHERSON, Ph.D., Professor of History and Political Science.

C. M. SNELLING, A.M., Sc.D., Professor of Mathematics.

W. D. HOOPER, A.M., Professor of Latin.

J. MORRIS, A.M., Professor of English Language and German.

J. LUSTRAT, Bach. ès Lett., Professor of Romance Languages.

R. E. PARK, A.M., Litt.D., Professor of Rhetoric and English Literature.

T. J. WOOFTER, Ph.D., Professor of Philosophy and Education.

J. S. STEWART, A.M., Professor of Secondary Education.

S. V. SANFORD, A.B., Junior Professor of Rhetoric and English Literature.

L. L. HENDREN, Ph.D., Professor of Physics and Astronomy.

J. M. READE, Ph.D., Professor of Botany.

W. R. KENDRICK, First Lieut. 17 U. S. Infantry, Commandant of Cadets.

U. H. DAVENPORT, B.S., Associate Professor of Electrical Engineering.

E. L. GRIGGS, Associate Professor of Civil Engineering.

W. O. PAYNE, A.M., Associate Professor of History and Political Science.

H. V. BLACK, Ph.D., Associate Professor of Chemistry.

R. P. STEPHENS, Ph.D., Associate Professor of Mathematics.

R. P. BROOKS, B.A., (Oxon.), Ph.D., Associate Professor of Georgia History and Sociology.

L. R. GEISSLER, Ph.D., Associate Professor of Psychology.

R. E. CURTIS, Ph.D., Associate Professor of Applied Economics.

R. L. McWHORTER, A.M., Adjunct Professor of Latin and Greek.

M. D. DuBOSE, A.M., Adjunct Professor of English Language and German.

S. M. SALYER, A.B., Adjunct Professor of Rhetoric and English Literature.

R. S. POND, Ph.D., Adjunct Professor of Mathematics.

E. T. MILLER, B.S., Instructor in Physics.

C. A. WELLS, M.S., Instructor in Chemistry.

W. T. TURK, A.B., Instructor in Romance Languages.

P. F. BROCK, A.B., Tutor in Rhetoric and English Literature.

D. R. CUMMING, A.B., Tutor in Mathematics.

SCHOOLS OF THE COLLEGE OF SCIENCE AND ENGINEERING.

(Arranged in the order of official seniority of the professors).

Chemistry.
Biology.
Civil Engineering.
History and Political Science.
Mathematics.
Latin Language and Literature.
English Language and German.
Romance Languages.
Rhetoric and English Literature.
Philosophy and Education.
Physics and Astronomy.
Botany.
Electrical Engineering.
Geology.

In this College but one degree is given, that of Bachelor of Science. It is believed that this degree should be, in all cases, the certificate of satisfactory completion of a proper course of mental training which, although given by divers arrangements of studies, should be equally severe, and, therefore, without discrimination as to title.

DEGREE.

The undergraduate degrees offered by the College of Science and Engineering are: Bachelor of Science (General); Bachelor of Science (Civil Engineering); Bachelor of Science (Electrical Engineering); Bachelor of Science (Architecture); Bachelor of Science (Commerce); Bachelor of Science (Medicine). Options must be selected after conference with and with the consent of the President of the College.

General provision, applicable to all courses and classes: In Physics, Chemistry, Botany, and Zoölogy laboratory work (two hours for one) may be substituted for lecture or recitation hours, at the option of the professor. One laboratory period of two hours per week is allowed for each course of three hours per week.

BACHELOR OF SCIENCE (General).

The requirements for this degree, outlined below, went into effect with the session 1911-12. Students in classes higher than Sophomore will graduate under the requirements as stated in the Register for the session 1910-11.

1. For admission to the University as a candidate for the degree of Bachelor of Science (General) fourteen units are required, as follows: English 3, Mathematics 2½, History 2, German or French 2, Elective 4½.

2. For graduation from the University with the degree of Bachelor of Science (General), a student must complete sixty-six hours, not inclusive of one hour a week of Military Science required of all Freshmen, an hour being used to signify one recitation a week throughout the college year, or its equivalent. (In addition, certain parallel reading, laboratory work, preparation of essays, or similar exercises are required, as indicated in the announcements of the several departments). Of these sixty-six hours, 18 are assigned to Freshman, 18 to Sophomore, 15 to Junior and 15 to Senior years, respectively. Not more than 12 hours (exclusive of Freshman hours) may be counted in any one department, and at least 18 hours (exclusive of Freshman hours and Sophomore Mathematics) must be taken from Group II, as noted below.

3. Not later than the beginning of the Junior year the student must select, with the advice and approval of the head of the department, some one department of science in Group II, in which his Major subject is to be taken, a department, also in Group II, in which a Minor subject is to be taken, and a department, not in Group II, in which a second Minor is to be taken. The work of a Major subject shall consist of at least 9 hours in one department, exclusive of Freshman hours. The student's plan of studies and any change therein must be approved by the head of the department in which the Major subject is taken.

4. The subject requirements for the degree are as follows:

English 1 and 2	6	hours.
Mathematics 1, 2, 3, 4	6	"
History 2	3	"
Graphics D-1 and D-2	2	"
Georgia History	1	"
Physics 1, or Physiology	3	"
Latin, French or Spanish, German, 3 hrs. in each of two	12	"
A Major from Group II	9	"
A Minor from Group II	6	"
A Minor from Group I or III	6	"
Additional subject from Group II	3	"
Electives	9	"
Total	66	hours.

5. The arrangement of subjects for the several years is as follows:

Freshman.

English 1	3	hours.
Mathematics 1, 2	3	"
History 2	3	"
Georgia History	1	"
Graphics D-1 and D-2	2	"
Latin 1, or French 3, or German 3	3	"
Physics 1,* or Physiology*	3	"
	18	hours.
Military Science	1	"

*Physics 1 must be taken by those who have not offered one full unit of Physics for entrance. Physiology must be taken by those who have offered one full unit of Physics for entrance.

Sophomore.

English 2	3	hours.
Mathematics 3, 4	3	"
Latin 2, or French 4, or German 4	3	"
Physics 2, 4, or 5,* Chemistry 2, Zoölogy 1, Botany 1, (two courses)	6	"
Group II, or History, or Psychology, or French 5 or Spanish 1, or German 5	3	"
Total	18	hours.

*Physics 2 cannot be taken by those who have received credit for Physics 1.

Junior and Senior.

To complete requirements — 30 hours.

6. The Groups:

Group I.—Language-Literature. Latin, French, German, English Language, English Literature, Spanish.

Group II.—Natural Science-Mathematics. Physics, Chemistry, Zoology, Botany, Mathematics, Experimental Psychology.

Group III.—History-Philosophy-Social Science. History, Economics, Political Science, Sociology, Psychology, Philosophy, Education.

7. Electives.

General electives may be taken, with the advice and consent of the head of the department in which the Major subject is taken, and of the Dean of the University, from courses offered in the University. Permissive courses will be listed annually by the Faculty on recommendation of the Committee on Curriculum, and filed in the office of the Dean.

BACHELOR OF SCIENCE (Civil Engineering).

The degree of Bachelor of Science in Civil Engineering is given on completion of the four years course outlined below. The studies required have been chosen so that the student will receive a sound, broad mental development in addition to his special knowledge of engineering. The instruction in engineering subjects includes a large amount of field practice and office drafting and computation. Thorough application of principles to designing, laying out, and erecting engineering structures is required.

Freshman.		**Sophomore.**	
Graphics D-1 & D-2,	3	Civil Engineering A-1,	3
English 1,	3	Graphics D-3,	2
History 2,	3	English 2,	3
Georgia History	1	Mathematics 3, 4,	3
Mathematics 1, 2,	3	Physics 4,	3
Physics 1 or 2*	3	Chemistry 2,	3
Physics 3,	1		
Military Science	1		
	18		17

Junior.		**Senior.**	
Chemistry 4, 5, or 8,	3	Astronomy and Geology	3
Civil Eng. B-1 & B-2, or B-3,	6	Civil Eng. C-1,-2,-3,-4,	6
Graphics D-4,	2	Graphics D-5,	2
Electrical Engineering 1,	3	Electrical Engineering 3,	3
Mathematics 5,	3	Mathematics 7, 9,	3
	17		17

*Physics 2 is required of students who have received one unit entrance credit in Physics.

Note.—Candidates for this degree who do not offer two years of French or German or Spanish for entrance will take the language work in the Freshman and Sophomore years; and will take Physics 1 or 2, and 3 in the Sophomore year, Chemistry 2 and Physics 4 in the Junior year, and Chemistry 4, 5, or 8 in the Senior year.

BACHELOR OF SCIENCE (Architectural Engineering).

Freshman.

Graphics D-1 & D-2,	3
English 1,	3
History 2,	3
Georgia History	1
Mathematics 1, 2,	3
Physics 1 or 2*	3
Physics 3,	1
Military Science	1
	18

Sophomore.

Civil Engineering A-1,	3
Graphics D-3,	2
English 2,	3
Mathematics 3, 4,	3
Physics 4,	3
Chemistry 2,	3
	17

Junior.

Chemistry 4, 5, or 8,	3
Mathematics 5,	3
Graphics D-4,	2
French 5,	3
or	
German 5,	3
Architecture B-4,	3
Civil Engineering B-1,	3
	17

Senior.

Astronomy and Geology	3
Graphics D-5,	2
French 6,	3
or	
German 6,	3
Civil Engineering C-1,-5,	3
Civil Engineering C-6,	3
	17

*Physics 2 is required of students who have received one unit entrance credit in Physics.

Note.—Candidates for this degree who do not offer two years of French or German or Spanish for entrance will take the language work in the Freshman and Sophomore years; and will take Physics 1 or 2, and 3 in the Sophomore year, Chemistry 2 and Physics 4 in the Junior year, and Chemistry 4, 5, or 8 in the Senior year.

BACHELOR OF SCIENCE (Electrical Engineering).

The course in Electrical Engineering is specially designed to give to those who contemplate making this subject their life-work a broad and well-rounded academic training, supplemented by a course in Electrical Engineering proper, which is as full and thorough as the time allowed will permit. Students are strongly urged to lay a broad foundation for electrical work, and to finish their course at some higher institution, after which they are advised to enter the shops of some electrical company before entering upon their profession. While some of the men trained here have entered upon a successful career in electrical work without studying further elsewhere, we believe the best and most lasting results will be obtained by following the plan outlined above.

Freshman.		Sophomore.	
Graphics D-1 & D-2,	3	Civil Engineering A-1,	3
English 1,	3	Graphics D-3,	2
History 2,	3	English 2,	3
Georgia History	1	Mathematics 3, 4,	3
Mathematics 1, 2	3	Physics 4,	3
Physics 1, or 2,	3	Chemistry 2,	3
Physics 3,	1		
Military Science	1		
	18		17

Junior.		Senior.	
Chemistry 4, 5, or 8,	3	Astronomy and Geology	3
Civil Eng. B-1, and -2 or -3,	6	Civil Eng. C-1,-2,	3
Electrical Eng. 1, 2,	5	Graphics D-5,	2
Mathematics 5,	3	Electrical Eng. 3, 4,	5
		Mathematics 7, 9,	3
	17		16

*Physics 2 is required of students who have received one unit entrance credit in Physics.

Note.—Candidates for this degree who do not offer two years of French or German or Spanish for entrance will take the language work in the Freshman and Sophomore years; and will take Physics 1 or 2, and 3 in the Sophomore year, Chemistry 2 and Physics 4 in the Junior year, and Chemistry 4, 5, or 8 in the Senior year.

BACHELOR OF SCIENCE (Commerce).

The degree of Bachelor of Science in Commerce will be conferred on students who have completed the following:

A total of sixty-six hours, distributed as follows:

English	6	Natural Science	12
Mathematics	6	Modern Language	12
Graphics	2	Economics	6
Georgia History	1	Business Administration	9
History	6	Free Electives	6

In addition to one hour of Military Science, required of all Freshmen.

Arrangement of Courses.

Freshman.		Sophomore.	
English 1,	3	English 2,	3
Mathematics 1, 2,	3	Mathematics 3, 4(*a*)	3
Modern Language	3	Modern Language	3
Georgia History	1	History 4,	3
Graphics	2	Natural Science	3
Natural Science	3	Economics 3,	3
Economics 1,	3		
Military Science	1		
	19		18

Junior	and	Senior	
Modern Language	6		
Natural Science	6		
Business Administration 1,	3	Business Administration 3, 4,	3
Economics 4, 5,	3	Business Administration 5,	3
Free Electives	6		
	15		15

A Six-Year Combination Course in Medicine.

1. Two years to be taken in the Academic department at Athens, as follows:

First Year (Freshman).		Second Year (Sophomore).	
Mathematics 1, 2,	3	Physics 1 or 2,	3
Chemistry 2,	3	Chemistry 3,	3
Biology 3,	3	Biology 4, 5,	3
English 1,	3	Psychology 1, 2,	3
French	3	French	3
German	3	German	3
	18		18

No course offered for entrance can be counted for the degree.

2. Two years to be taken in the Medical Department at Augusta, comprising the first two years of the regular medical course.

On the satisfactory completion of this four year course, the academic degree of Bachelor of Science in Medicine will be conferred.

3. Two additional years to be taken in the Medical Department in Augusta completing the regular course leading to the degree of Doctor of Medicine, on the completion of which such degree will be conferred.

COURSES OF INSTRUCTION

CHEMISTRY.

H. C. WHITE, Professor.
H. V. BLACK, Associate Professor.
C. A. WELLS, Instructor.

The following courses are offered:

1. **Elementary Chemistry.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, Outlines of Chemistry.

2. **Inorganic Chemistry; College Course.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, Outlines of Chemistry.

3. **Organic Chemistry; College Course.** Three hours per week of lectures and recitations and two laboratory periods for three terms. Text: Remsen; Organic Chemistry.

4. **Industrial (including Agricultural) Chemistry.** Three hours per week of lectures and recitations for three terms. Texts: Professor's Notes; Thorpe; Industrial Chemistry.

5. **Physical Chemistry.** Three hours per week of lectures and recitations and two laboratory periods for three terms.

6. **Sanitary Chemistry.** A course in sanitary analysis for students of sanitation, sanitary engineering, medicine and of public health laboratory technique. One hour of lectures and recitations and four laboratory periods per week for three terms. Open to students who have had Chemistry 8 and Biology 1 or the equivalent of these.

7. **Pharmaceutical Chemistry.** Three hours per week of lectures and recitations and two laboratory periods for three terms. Text: Coblentz and Sadtler; Pharmaceutical Chemistry.

8. **Analytical Chemistry.** About two-thirds of this course is devoted to qualitative analysis, on the completion of which quantitative analysis is begun. Six laboratory periods per week for three terms. Texts: W. A. Noyes; Qualitative Analysis; Morse; Exercises in Quantitative Chemistry.

9. **Analytical Chemistry.** Quantitative. Continuing the work of course 8, a thorough foundation is laid in the scientific principles of quantitative analysis, followed by more detailed work in the analysis of iron and steel, of iron ores, of fertilizers, or in metallurgy and assaying, or in such other branches of analysis as the needs of the individual student may suggest. Six laboratory periods per week for three terms.

In connection with courses 3, 5, and 9, work will be offered in the History of Chemistry, using Meyer's History of Chemistry as text.

The following fees will be charged for chemicals used in the laboratories: In courses 1, 2, 3, 5, 6, and 7, $2.50; courses 8 and 9, $10.00. Necessary apparatus is furnished the student and breakage must be paid for at the end of the course.

Four lecture rooms and nine laboratories, appropriately furnished and equipped, are provided in Terrell Hall, which is occupied exclusively by the Schools of Chemistry and Pharmacy.

BIOLOGY.

JOHN P. CAMPBELL, Professor.
PAUL L. HUDSON, Fellow.

In this school, the following courses are offered for the coming year:

1. **Animal Physiology.** The object of this course is in part to give the student such knowledge of his own body and its workings as every well-educated man should have, and also to illustrate the

methods of science. To these ends, Anatomy and Histology are considered as far as necessary, but special stress is laid upon the functional activities of the tissues and organs, and the conditions necessary for their normal activities. The course is based upon Part 1 of Hough & Sedgwick's "The Human Mechanism," with much additional matter presented in lectures, demonstrations, and parallel reading. Three hours per week during the first and second terms. Optional for Freshmen.

2. **Hygiene and Sanitation.** In this course, practical application is made of the subject matter of course (1). The special topics taken up are as follows: Health and disease; Muscular activity; Hygiene of the Nervous System; Hygiene of Feeding; Drugs, alcohol, and tobacco; Colds; Care of Eyes and Ears; Bathing; Clothing; Domestic Sanitation; Public Health; Infectious Diseases; Immunity; Sex-Hygiene. Based on Part 2 of Hough & Sedgwick's "The Human Mechanism." Three hours per week during third term. Optional for Freshmen.

3. **Invertebrate Zoölogy.** This course is based upon the laboratory study of a selected series of types representing all of the leading invertebrate phyla of the animal kingdom. Arthropods are studied in the first term; Protozoa, Porifera, Coelenterates, and some of the smaller phyla in the second; while Annulata, Echinoderms, and Mollusca take up the third. This course is intended to give students a broad outlook on the animal kingdom as a whole, and to this end many theoretical questions are taken up in connection with those animals which best serve to illustrate them. Three hours weekly with laboratory work additional. Designed for Sophomores taking a major in Zoölogy, but open to Juniors and Seniors as an elective study.

4. **Vertebrate Zoölogy.** The methods in this course are the same as in course (3). The different classes of Vertebrates are studied by means of selected types, but this is supplemented by extended reading, museum work, and lectures profusely illustrated with lantern slides. Three hours weekly with additional laboratory work during first and second terms.

5. **Comparative Osteology.** The comparative structure of the skeletons in the different vertebrate classes is taken up in this course. Special stress is laid upon the broader features of theoretical importance, but sufficient detail will be brought out to make this course valuable to the prospective medical student. Two class hours and two laboratory periods during the third term.

Note.—Courses (4) and (5) together make up the second year of a "Major" or "Minor" in Zoölogy. They are open to any student who has completed course (3).

6. **Comparative Anatomy of Vertebrates.** In this course, atten-

tion is paid to the broader side of Anatomy, including Embryology and Histology. All the organs in the body are studied comparatively and attention is given to the theoretical questions growing out of this line of study. Based on Kingsley's "Comparative Anatomy of Vertebrates." Three hours weekly with extra laboratory work. Designed to be the third year of a "Major," but open to any student who has completed courses (3), (4), and (5). This course may be counted as a graduate Minor when properly supplemented. (See Graduate School).

7. **Animal Physiology.** This course is planned for students who have a good knowledge of elementary Physiology, equal in scope to that afforded by course (1), and who have in addition a good working knowledge of Physics and Organic Chemistry. Special topics are taken up for fairly exhaustive treatment, and the effort is made to bring the student into touch with the latest developments of the subject. Three hours weekly with laboratory work additional. Free elective to any Seniors who can comply with the conditions above stated, or may be supplemented and count as a graduate Minor.

CIVIL ENGINEERING.

C. M. STRAHAN, Professor.
E. L. GRIGGS, Associate Professor.
J. C. KOCH, Adjunct Professor.
(Student Assistants: C. Pope, and R. T. Goodwyn).

The School of Civil Engineering offers instruction in the various branches of Civil Engineering, Architecture, and Graphics, and endeavors to aid students in becoming skillful draftsmen, accurate surveyors, careful designers, and practical constructors. The instruction by text-book and lectures is supplemented by a large amount of field practice, laboratory and draughting room exercises, and original investigations and essays.

The courses in this department lead to the degrees of Bachelor of Science in Civil Engineering and Architectural Engineering. Upon satisfactory completion of partial courses, certificates will be issued to students, covering the work done. It is not deemed advisable at present to create a special degree in Highway Engineering, but with the approval of the Faculty mature students completing special work in highway construction will be given certificates thereon.

Civil Engineering Courses.

A-1. **Elementary Surveying.** A course covering the use, care, and adjustment of surveying instruments, methods of surveying by chain alone, by compass, and by transit; the methods of platting and computing areas, and volumes; the variation of the magnetic needle; problems in parting off and dividing lands; the use of the Y level and precise leveling; plane table and stadia surveying, and the use of the solar transit. Three hours per week. Required of Sophomores in all Engineering courses. Text: Breed and Hosmer's Surveying. *Professor Griggs.*

B-1. **Materials of Construction.** A course of lectures and laboratory work covering the occurrence, preparation, and manufacture of the important structural materials, to-wit: lumber, its seasoning, inspection, and preservative treatment; stone, natural and artificial, including brick, terra cotta, cements, concrete blocks, etc.; the metals, including iron, wrought iron, steel, copper, tin, lead, zinc, aluminum, and alloys as used by engineers; uniting materials, covering limes, mortars, cements, bituminous binders, joinery, rivetting, etc. First and second terms. The third term is given to Foundations and Masonry structures, the course being based on Baker's Masonry Construction. Three hours per week. Required of Juniors in all Engineering courses. *Professor Strahan.*

B-2. **Railroad Engineering.** A course covering reconnoissance, preliminary and location surveys, curves, spirals, switches, etc., cross-sectioning, computations and estimates, railroad economics and the various other problems involved in the complete engineering of railways. Three hours per week. Optional for Juniors in Civil and Electrical Engineering. Text: Webb's Railroad Construction. Lectures. *Professor Strahan.*

B-3. **Highway Engineering.** A course of lectures, laboratory and field problems covering the surveys, location, drainage, grading and surfacing of public highways and city streets. The preparation of maps, profiles, and estimates. Paving methods and specifications. Road finances, equipment, and labor. Three hours per week. Optional for Juniors in Civil and Electrical Engineering. *Professor Koch.*

B-4. **Elements of Architecture.** A course of lectures and problems covering the classical orders, Gothic and Romanesque Forms. Sketches from memory required. Parallel reading and essays on the history of architecture. References: Hamlin, Fletcher, Ferguson. Three hours per week. Required of Juniors in Architectural Engineering. *Professor Strahan.*

C-1. **Applied Mechanics.** A course covering the fundamental principles of stresses and strains, the effect of forces and moving loads upon framed and masonry structures, the elastic resistances of materials and the principles governing structural design of bridges, roofs, arches. First and second terms. Three hours per week. Required of Seniors in all Engineering courses. Text: Lanza's Applied Mechanics. *Professor Strahan.*

C-2. **Hydraulics.** A course in theoretical and practical hydraulics covering hydrostatics and hydrodynamics. Measurements of velocity and discharge, weirs, nozzles, orifices, meters, turbines, stream flow, etc., and the utilization of streams for power purposes. First Term. Three hours per week. Required of Seniors in Civil and Electrical Engineering courses. Text: Russell's Hydraulics. Lectures. *Professor Strahan.*

C-3. **Bridges, Arches, and Reinforced Concrete.** A course covering bridges and arch and concrete masonry design. A practical course of lectures and design problems on highway bridges, reinforced arch bridges, culverts, and bridge inspection. Three hours per week. Second and Third terms. Required of Seniors in Civil Engineering course. *Professor Koch.*

C-4. **Water Supply and Sewerage.** A course of lectures and problems on water supply, sewerage, garbage disposal, etc., including the examination and purification of public water supplies and the methods of sewerage purification. Parallel reading: Hazen, Fuertes, Hering, and current reports. Third term. Three hours per week. Required of Seniors in Civil Engineering. Optional in other Engineering courses. *Professor Strahan.*

C-5. **Heating and Ventilation.** A course covering the various methods of heating and ventilation including low pressure and high pressure steam, the vapor system, hot air furnaces, direct and indirect radiation, etc. Third term. Three hours per week. Required of Seniors in Architectural Engineering. Text: Baldwin, Heating and Ventilation. Lectures. *Professor Griggs.*

C-6. **Architectural Design.** A course in designing modern structures, with necessary plans, elevations, sections, and detail drawings, with specifications. Simpler problems are given leading up to more complex masonry structures. Three hours per week, including Reinforced Concrete under C-3. Required of Seniors in Architectural Engineering. *Professor Griggs.*

Courses in Graphics.

D-1. **Elementary Graphics.** The first part of this course includes the construction of simple geometrical figures, designed to teach the use of the instruments and habits of neatness and precision. The work in projection follows. The course is illustrated by models, and written examinations are held at intervals. Practice in lettering is given throughout the course. With this course are given also two hours per week of free-hand drawing. Two hours per week. Required of all B.S. Freshmen. Text: "Elements of Drawing," Strahan and Griggs. *Professor Griggs.*

D-2. A course covering tracing and blue-printing, details of framing, riveting members, trestles, bridges, etc., according to standard symbols used in shop and construction drawings. One hour per week. Required of Freshmen applying for any of the Engineering degrees. *Professor Griggs.*

D-3. **Descriptive Geometry.** This course is open to students who have taken Course D-1 or its equivalent. The problems are both demonstrated and drawn on uniform plates neatly lettered. Intersections of solids, shades and shadows are studied. Original problems are given. Two hours per week. Required of Sophomores in Engineering courses. Text: Phillips and Millar. *Professor Griggs.*

D-4. **Advanced Graphics.** This course includes Topographical maps of field surveys showing full details, measured drawings of buildings, principles of mathematical perspective with problems and an elaborate rendered perspective of some building. Two hours per week. Required of Juniors in Civil and Architectural Engineering courses. *Professor Griggs.*

D-5. **Graphic Statics and Structural Design.** A course in determination of stresses in structures by graphical methods and in designing steel structures, such as built girders, knee-braced roof trusses, and pin-connected bridge truss. Text: Haskin's Graphic Statics, Thompson's Bridge and Structural Design. Two hours per week. Required of Seniors in all Engineering courses. *Professor Strahan.*

Special United States Survey Course. A course for applicants for positions in the various Government Survey Corps. Two hours per week. Open to special students sufficiently prepared in the general engineering subjects.

Graduate Courses. For the degrees of Civil Engineer and Civil and Mining Engineer the applicant pursues advanced courses, having in view the special branch of the profession which he intends to follow. Original investigation is made a prominent feature of these courses.

Note.—For schedule of studies leading to the degree of Bachelor of Science in Civil Engineering, see page 95.

Good Roads Department.

This department of the School of Civil Engineering has been organized for the purpose of giving direct instruction and field assistance to the road authorities of the counties of Georgia. The Trustees have recognized the importance of the road movement and have added an experienced officer to the staff of the School in order that special courses of instruction may be given at the University, and that upon request of county officials, visits for advice and demonstration may be made to counties requesting them. By writing to any of the officers of the School of Civil Engineering, full information and blank forms of application for assistance will be furnished.

Advice and Assistance. The visits to counties are made free of charge except where the service rendered is of long duration, and then the traveling and field expenses of the officer are the only cost.

Laboratory Examination of Road Materials. This department has established a road material laboratory for the examination of sand-clay, top-soil, gravel, and similar road building materials. Samples sent by county road authorities will be examined free of charge and report made indicating the suitability of the material for surfacing roads. Send for printed instructions on how to take such samples.

County road officials are invited to come to the University or write to the department at any time when they desire information or assistance, and to take advantage of the special or regular courses of instruction offered below. These courses are also open to mature students who desire to obtain instruction in road building.

Special Ten-Day Course on Highway Building. By writing to the department, any road official in Georgia can arrange to receive, at the University, ten days' instruction in relocating, grading and surfacing of highways, with especial reference to the use of top-soil and sand-clay construction, the equipment of road construction forces, handling of labor, and other methods which the department in its experience has found practical and effective. Registration fee, $1.00. No tuition fees.

One-Year Course on Highways. Road officials and mature students who are employed, or are looking forward to employment in county road work will be allowed to pursue a special one-year course in Highways. No entrance examination is required for this course. This course will include training in the use and care of surveying instruments, surveys, preparation of maps, profiles, estimates, selection of road surfacing materials based on field and laboratory examination, field instruction in laying out roads, grading, drainage, and surfacing of roads, organization of labor, equipment, accounting, contracts and other economic problems connected with road construction.

The distribution of time required of the student is as follows:

Road Construction Methods,	3 hours per week.
Elementary Surveying,	3 “ “ “
Drawing and Platting,	3 “ “ “
Laboratory Examination of road Materials and Field Location of Roads, etc.,	3 “ “ “

Other subjects in the University will be open to such students.

No tuition fees are charged. Earnest men will find this course very valuable in adding to their efficiency and fitting them for service in road building.

When prepared by previous training, special students in road engineering will be permitted to take the regular courses A-1, B-2, and C-3, as described on pages 101, 102, 103.

HISTORY AND POLITICAL SCIENCE.

For courses see page 79.

MATHEMATICS.

For courses see page 81.

LATIN.

For courses see page 82.

ENGLISH LANGUAGE AND GERMAN.

For courses see page 83.

ROMANCE LANGUAGES.

For courses see page 84.

RHETORIC AND ENGLISH LITERATURE.

For courses see page 85.

PSYCHOLOGY, PHILOSOPHY AND EDUCATION.

For courses see page 87.

PHYSICS AND ASTRONOMY.

L. L. HENDREN, Professor.
E. T. MILLER, Instructor.
GRADY PADGETT, Fellow.

Physics 1. Elementary Physics. In this course especial emphasis is laid on the applications of the principles of Physics to practical life. Text-book, Mann & Twiss, Physics, with special laboratory notes. Two hours per week recitation work and three hours per week laboratory work. Required of all Freshman B.S. General and Engineering students who have not received entrance credit of one unit in Physics.

Physics 2. Elementary Physics. A course in general Physics similar to but somewhat more advanced than Physics 1, and requiring as a prerequisite one unit of Physics work in the High School. This course is not open to those students who receive credit for Physics 1. Three hours per week recitation and two hours per week individual laboratory work. Required of all Freshman B.S. Engineering students who have received credit of one unit in Physics. Elective for Sophomore B.S. General students who have not received credit for Physics 1.

Physics 3. Physical Measurements. This is a laboratory course requiring one double period each week and can be taken parallel with either Physics 1 or Physics 2. The First Term will be devoted to a study of the theory and manipulation of instruments, such as the vernier caliper and the slide rule. The study and use of the slide rule as an instrument for facilitating computations will occupy the major part of the First Term. This work will be given by Prof.

J. C. Koch of the Engineering Department, and is open to any student of the University. The Second and Third Terms' work will be devoted to quantitative measurements in Heat, Light and Electricity. Required of all Freshman B.S. Engineers. Elective for all students taking Physics 1 or 2.

Physics 4. An advanced course in Mechanics, Molecular Physics, Electricity and Magnetism. Prerequisites, Physics 1 or 2 and Plane Trigonometry. Three hours per week recitation and two hours per week individual laboratory work. Required of all Sophomore B.S. students (beginning 1914-1915). Elective for Sophomore, Junior and Senior B.S. General students. This course with Physics 2 or 5 counts as a Minor; with Physcis 2 and 5 or 5 and 6 it counts as a Major. This course is not offered for 1913-1914.

Physics 5. An advanced course in Heat, Sound, Light and Electromagnetic waves. Prerequisites: Physics 1 or 2 and Plane Trigonometry. Three hours per week recitation and two hours per week laboratory work. Required of all Sophomore B.S. Engineering students in 1913-1914. Elective for Sophomore, Junior and Senior B. S. General students. This course with Physics 4 covers the ground of general Physics. With Physics 2 or 4 it counts as a Minor, with Physics 2 and 4, or 4 and 6 it counts as a Major.

Physics 6. Lectures, Demonstrations, Recitations and Laboratory work in the Electromagnetic Theory of Light, the Discharge of Electricity through Gases, and the Electron Theory of Electricity and Matter. Prerequisites: Physics 4 and 5, Inorganic Chemistry and the Calculus. Three hours per week recitation and two hours per week laboratory work. Elective for Seniors. This course with Physics 4 and 5 counts as a Major.

Astronomy 1. Text-book: Moulton, Introduction to Astronomy. Three hours per week recitation first half year. General elective for Seniors.

Note.—A laboratory fee of three dollars will be required for courses 1, 2, 4 and 5.

BOTANY.

J. M. READE, Professor.
PAUL TABOR, Student Assistant.

The following courses are offered under the conditions prescribed in the curricula of Science, Agriculture, and Forestry.

A laboratory fee of $2.50 is charged for each course.

1. **Elementary Botany.** An introductory course dealing with the main facts of the biology and structure of plants. Prerequisite to all other work in the subject. Class and laboratory periods both twice weekly.

2. **Morphology and Development of Higher Plants.** A general

account of the mosses, ferns and seed plants. Course 1 is prerequisite. Class and laboratory periods both twice weekly.

6. **Morphology and Taxonomy of the Fungi.** A general account of the structure, development and classification of the Eumycetes. Course 1 is prerequisite. Class and laboratory periods both twice weekly.

9. **Physiology of Vascular Plants.** A field and laboratory study of the physiological processes of higher plants and their accomplishment under environmental conditions. Courses 1 and 2 are prerequisite. Class and laboratory periods both twice weekly.

10. **Ecology.** A geographical and dynamical study of vegetation. Courses 1, 2 and 9 are prerequisite.

The remaining courses are announced and may be given if conditions warrant it.

3. **Histological Methods.** A laboratory course in the methods of preparing and studying microscopic plant structures. A half course. Chamberlain, Methods in Plant Histology. Course 1 is prerequisite.

4. **Mycological Methods.** A laboratory course in the methods of cultivating and studying bacteria and fungi. A half course. Course 1 is prerequisite.

5. **Morphology and Biology of Bacteria.** A general account of the group. Course 1 is prerequisite.

7. **Morphology and Biology of the Algae.** A general account of the group. Course 1 is prerequisite.

8. **Fungi and Plant Diseases.** A laboratory and field study of Bacteria, Myxomycetes and Eumycetes in relation to plant diseases. Coures 1, 4 and 6 are prerequisite.

11. **Physiology of Reproduction.** A lecture course dealing with the facts and theories of variation and inheritance.

ELECTRICAL ENGINEERING.

U. H. DAVENPORT, Associate Professor.

1. **Electrical Machinery and Apparatus.** A study of the theory of direct currents and their application to electrical machinery and engineering auxiliaries — meters, storage batteries, transmission lines, distribution systems, electric lights, etc. Three lecture and quiz periods and one double period in the dynamo laboratory each week. The course includes also a large number of problems, which all students are required to work and file each week for grading by the instructor. Texts: Franklin & Esty's "Elements of Electrical Engineering—Direct Currents," and Franklin & Esty's Dynamo Laboratory Manual, Vol I. Required of Juniors in the Civil Engineering, and the Electrical Engineering courses.

2. **Mechanical Engineering of Power Plants. A study of Prime Movers and Power Plant Auxiliaries**—steam engines and boilers,

steam turbines, gas and oil engines, waterwheels and windmills, condensers, economizers, feed water heaters, pumps, piping, etc. A limited amount of laboratory work with steam, gas, and gasoline engines will be required. The course will include visits to plants where the various types of prime movers will be found in operation. Certain installations, typical of the best modern practice, both steam and hydraulic, will be studied from available detail drawings, and, if possible, by visits to the plants. Two hours per week; required of Juniors in the Electrical Engineering course.

3. **Electric Machinery and Apparatus — Alternating Currents.** A continuation of course 1. A study of the theory of alternating currents and their application to electrical machinery and engineering auxiliaries: transformers, meters, lights, transmission lines, distributing systems, etc. Three lecture and quiz periods and one double period in the laboratory each week. The course includes also a large number of problems, which all students are required to work and file each week for grading by the instructor. Texts: Franklin & Esty's "Elements of Electrical Engineering—Alternating Currents," and Karapetoff's Experimental Electrical Engineering. Required of Seniors in the Civil Engineering and the Electrical Engineering courses.

4. **Electrical Engineering of Power Plants.** A study of the market conditions causing a demand for electrical power, the natural source of energy available, the most economic and satisfactory methods of developing it, transforming it into electrical energy, transmitting it to the market, and distributing it to the consumers. A detailed study of the power plant equipment, including standard switchboard construction and special wiring problems will be made. High tension, long distance transmission line phenomena will be studied and transmission line calculations will be made. Typical installations, both hydro-electric and steam electric, will be studied in detail and visits will be made to such plants as are available for study. Construction drawing and diagrams of these plants will be used where they are available. Three hours per week. Required of Seniors in Electrical Engineering course.

ECONOMICS.*

R. E. CURTIS, Associate Professor.
——— —————, Associate Professor.
——— —————, Assistant Professor.

1. **Economic History.** An outline of the history of the world's industry and commerce with particular attention to the rise and

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*For courses in Business Administration see the announcement of the School of Commerce.

decline of great commercial cities and nations; the development of industry, transportation, labor organizations, and agriculture in the United States; the financial and commercial history of this country; economic integration and industrial organization in recent times.

First half of year, 3 hours.

Required of Freshmen in the School of Commerce.

2. **Economic Geography.** The description of the present status of industry and commerce in the principal countries of the world; the study of the chief products of the world, the character of national industries, the relation of soil, climate, and other geographical factors to industry and commerce; commercial and industrial centers, seaports, trade routes, the distribution of population considered from an economic standpoint. A part of the course will be devoted to the problem of the conservation of natural resources in the United States, with especial reference to conditions in Georgia.

Second half of year, 3 hours.

Required of Freshmen in the School of Commerce.

3. **The Elementary Principles of Economics.** The principles underlying the business activity of the world are studied for the purpose of enabling the student to understand the operation of economic forces and to reach sound conclusions on business problems. The work proceeds from the analysis of those terms and concepts with which the student is most familiar to the more complex problems. Designed primarily for students in the School of Commerce.

First half of year, 3 hours. Open only to Sophomores.

Required of students in the School of Commerce.

4. **American Government.** A part of the course consists of a general survey of the system of government, national, state, and local in all its phases. The emphasis of the course, however, is placed on the fundamental relations of the state to property and business: the power of the state over commercial organization, over public service companies, insurance, interstate and international trade; the taxing power, eminent domain, the police power, governmental guarantee of property rights, assistance to private enterprises, and other similar topics.

Second half of year, 3 hours. Open to Sophomores.

Required in the School of Commerce.

5. **General Economics.** A general course devoted to the discussion of the laws of consumption, production, exchange, and distribution of wealth, involving such economic problems as the determination of wages, profits, interest rates, rents, and values. Attention is given to the subjects of money, credit, trade unions, transportation, etc. This course is designed especially for election by students in the general courses of the University.

Throughout the year, 3 hours. Open to Juniors and Seniors of all departments of the University.

6. **Money, Banking, and Credit.** The economics of finance, the principles of money, the relation of money and prices, the monetary systems of the world; the principles of credit, the functions of banks, banking systems of the world; note issues, loans, reserves, clearing hourses, branch banking, the money market, exchange, etc.; National and State banking laws, pending currency legislation; industrial and financial crises.

First half of year, 3 hours. Open to Juniors and Seniors.

Required in the School of Commerce.

7. **Corporation Finance.** The nature and characteristics of the corporation, its formation, promotion, and organization; the issue and sale of securities, their various forms; the management of capital funds and earnings; receiverships, reorganization; investment problems, underwriting, brokerage, speculation; governmental control.

Second half of year, 3 hours. Open to Juniors and Seniors.

Required in the School of Commerce.

8. **Transportation.** Early experiments in transportation in the United States, the growth of the American railway system; national, state, and municipal aid to railways; the railway corporation, its charter, capital, earnings, expenses, and dividends, the organization and administration of the railway service; the character of the passenger, freight, express, and mail services; the question of competition, combination, discrimination in rates and service; the relations of the railway to investors, employees, the public; state and federal regulation.

First term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1912-1913 and alternate years.

9. **Public Service Companies.** A study of municipal utilities. A discussion of the questions of public and private ownership, and public regulation from legal and economic viewpoints; constitutional and judicial limitations; power of the legislature, courts, and commissions; reasonable rates and service; problems of employment; the laws of Georgia, New York, Wisconsin, and other states.

Second term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1912-1913 and alternate years.

10. **Industrial Combinations.** This course is devoted largely to the policy of the government with regard to trusts and monopolies, the conditions which have led to the growth of the great corporations and the development of production on a large scale; advantages and disadvantages of large scale production; the nature of monopoly, present day monopolies. The development of the law on combinations and monopolies; state and federal anti-trust legis-

lation and the effects of judicial interpretation; the trust policies of foreign countries.

Third term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1912-1913 and alternate years.

11. **Public Finance.** A study of the general principles of public expenditure, revenue, and indebtedness; a study of specific forms of taxation; customs and excises, income, inheritance, corporation, and general property taxes; a survey of systems of tax administration.

First term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1913-1914 and alternate years.

12. **Labor Problems.** The origin and development of labor organizations, the industrial and legal status of labor and labor unions; the employers associations; wages, standards of living, immigration, hours, health and safety, unemployment, strikes, lockouts, boycots, blacklists, etc.

Second term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1913-1914 and alternate years.

13. **Insurance.** The subjest is considered from the standpoint of the purchaser of insurance: the various forms of insurance, the theory of rates, loan and surrender values, investments, dividends, insurance mathematics, accident and health and property insurance.

Second term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1913-1914 and alternate years.

14. **Agricultural Economics.** The factors in agricultural production; the distribution of agricultural earnings; history of agriculture in modern Europe and the United States; history of Southern agriculture; present status of farming in the United States; agricultural population; farm areas, improved, unimproved, arid, and swamp lands; land tenure, owners, renters, share farmers; agricultural credit; marketing of farm products, economy of good roads; prices; the social center movement; taxation for rural schools; rural churches.

Throughout the year, 3 hours. Open to Juniors and Seniors.

GEOLOGY.

For courses see page 90.

THE COLLEGE OF AGRICULTURE

HISTORICAL STATEMENT.

The Georgia State College of Agriculture was organized in accordance with the Act of the General Assembly of the State passed July 21st, 1906. This institution is an outgrowth of the State College of Agriculture and the Mechanic Arts, which was founded as a coordinate department of the University of Georgia on May 1, 1872, upon the transference of the funds arising from the sale of Georgia's interest in the landscript to the trustees of the University. Its further endowment was made possible from time to time by additional appropriations provided through the generosity of the federal government. The State, however, realizing that agriculture represented its principal industry, decided by legislative enactment to differentiate and endow the work of the Agricultural College in order that it might more fully serve the chief interest of all the people.

The preamble to the Conner Bill contains the following statement, which sets forth fully the reasons for enlarging the work of the State College of Agriculture along both educational and research lines: "Agriculture is the principal industry of the State, and the main source from which the material prosperity of the State must come. Experience has demonstrated the great value of agricultural education in permanently improving the soil, multiplying its yield and increasing the value of its products. There is a growing demand by the people of the State for agricultural education, and for the practical benefits of scientific research in this line, and for improved methods in farming." The law provides that the State College of Agriculture shall be under the direction of a separate Board of Trustees, consisting of eleven men, three selected from the trustees of the University proper, three from the directors of the Georgia Experiment Station, including the Commissioner of Agriculture, and five from the State at large. The Board has the same functions and exercises the same authority as that of the trustees of similarly organized and coördinated divisions of the University, but is subject, in accordance with the provisions of the constitution of the State, to the general control of the University trustees.

BOARD OF TRUSTEES.

From the Trustees of the University.

JOHN W. BENNETT, Waycross, 11th Congressional District,	Term expires Aug. 13, 1915.
JOHN T. NEWTON, Madison, 8th Congressional District,	Term expires Aug. 13, 1915.
DUDLEY M. HUGHES, Danville, 3rd Congressional District,	Term expires Aug. 13, 1913.

From the Experiment Station Board:

LAMARTINE G. HARDMAN, Commerce, 9th Congressional District,	Term expires Aug. 13, 1914
JAMES J. CONNER, Atlanta, Commissioner of Agriculture,	Term expires June 26, 1913.
ROBERT C. NEELY, Waynesboro, 11th Congressional District,	Term expires Aug. 13, 1916.

From the State at Large:

JUDSON L. HAND, Pelham, 2nd Congressional District,	Term expires Aug. 13, 1916.
GEORGE GILMORE, Worthen, 8th Congressional District,	Term expires Aug. 13, 1916.
ANDREW J. McMULLAN, Hartwell, 8th Congressional District,	Term expires Aug. 13, 1916.
JAMES A. THRASH, Greenville, 4th Congressional District,	Term expires Aug. 13, 1912,

OFFICERS OF THE BOARD.

JAMES J. CONNER, President.

T. W. REED, Secretary and Treasurer.

ANDREW M. SOULE, Assistant Secretary.

EXECUTIVE COMMITTEE.

Messrs. Hardman, Newton, and McMullan.

THE COLLEGE OF AGRICULTURE

ADMINISTRATIVE AND TECHNICAL STAFF.

DAVID CRENSHAW BARROW, LL.D., Chancellor.

ANDREW McNAIRN SOULE, B.S.A., Sc.D., President; Director of Farmers' Institutes.

JOHN RICHARD FAIN, B.S., Professor of Agronomy.

ALFRED AKERMAN, A.B., M.F., Professor of Forestry.

MILTON PRESTON JARNAGIN, B.S.A., Professor of Animal Husbandry.

ROBERT JOHN H. DeLOACH, A.B., A.M., Professor of Cotton Industry.

THOMAS HUBBARD McHATTON, B.S., Sc.D., Professor of Horticulture.

LEROY COLLIER HART, B.S., E.E., Professor of Farm Mechanics.

WILLIAM ARCHER WORSHAM, Jr., B.S., A.M., Professor of Agricultural Chemistry.

WILLIAM MILLS BURSON, D.V.M., Professor of Veterinary Science.

*GUY WITSOTZKEY FIROR, B.S., M.S., Secretary of Extension Department.

‡*JAMES PHILANDER CAMPBELL, State Agent in Extension-Demonstration Work.

‡*JAMES WILLIAM HART, Professor, Dairy Husbandry.

*JOHN L. BISHOP, B.S.A., M.S., Adjunct Professor, Animal Husbandry.

*LEONIDAS MYERS CARTER, Junior Professor of Soil Chemistry.

*GEORGE A. CRABB, B.S.A., Adjunct Professor of Agronomy.

*DAVID D. LONG, B.S.A., Soil Expert in State Survey.

CHARLES ANDERSON WHITTLE, A.B., Editor-Librarian.

‡*JOHN KYGRESS GILES, B.S.A., Assistant State Agent in Extension-Demonstration Work.

*JOHN WILLIAM FIROR, B.S., Adjunct Professor of Horticulture.

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*In Extension service.

‡In Coöperation with U. S. D. A.

*ROBERT S. HOLLINGSHEAD, A.B., Adjunct Professor of Soil Chemistry.

*LeROY LUCIEN JONES, B.S., Instructor in Poultry Husbandry.

*LOY EDMUND RAST, B.S., Instructor in Agronomy.

‡*MARY E. CRESWELL, In Charge of Girls' Clubs.

HENRY HINO ROTHE, D.V.M., Instructor in Veterinary Science.

HUBERT BEDLER CARPENTER, B.S.A., Instructor in Animal Husbandry.

THOMAS W. REED, A.M., Registrar.

ETHEL REESE, Secretary to President.

PHARES OBADIAH VANATTER, Superintendent of Field Experiments.

AMBROSE PENN WINSTON, Farm Foreman.

CLAUDE M. KIGER, B.S.A., Tutor in Horticulture.

ROSS RENFROE CHILDS, B.S.A., Tutor in Agronomy.

BONNELL HAROLD STONE, Student Assistant in Forestry.

WILBE RADFORD WILSON, Student Assistant in Farm Mechanics.

LANNIE GROOVER PROCTOR, Student Assistant in Farm Mechanics.

ELMO RAGSDALE, Student Assistant in Farm Mechanics.

*PEARL MORRIS, Clerk and Stenographer.

NORA SAYE, Clerk and Stenographer.

OLIVE BELL, Clerk and Stenographer.

*PEARL DICKENSON, Clerk and Stenographer.

*LILY JUHLIN, Multigraph Operator.

District Agents in Extension-Demonstration Work.

WILLIAM BRADFORD, A.B., M.D., Cedartown.

JAMES WALTER HENDRICKS, A.B., Savannah.

GEORGE VIVIAN CUNNINGHAM, Tifton.

JAMES G. OLIVER, Macon.

S. M. COWN, Union City.

CLIFFORD M. JAMES, B.S., Special Agent, Columbus.

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*In Extension service.

‡In Coöperation with U. S. D. A.

GENERAL STAFF.

HENRY CLAY WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry, Terrell Professor of Agricultural Chemistry.

JOHN PENDLETON CAMPBELL, Ph.D., Professor of Biology.

CHARLES MORTON STRAHAN, C. and M. E., Professor of Civil Engineering.

JOHN HANSON THOMAS McPHERSON, Ph.D., Professor of History and Political Science.

CHARLES MERCER SNELLING, A.B., Sc.D., Professor of Mathematics.

JOHN MORRIS, A.M., Professor of English Language and German.

JOSEPH LUSTRAT, Bach. ès Lett., Professor of Romance Languages.

ROBERT EMORY PARK, Jr., A.M., Litt.D., Professor of Rhetoric and English Literature.

THOMAS JACKSON WOOFTER, A.M., Ph.D., Professor of Philosophy and Education.

JOSEPH SPENCER STEWART, A.M., Professor of Secondary Education.

W. R. KENDRICK, First Lieut. 17th U. S. Infantry, Commandant of Cadets.

STEADMAN VINCENT SANFORD, A.B., Junior Professor of Rhetoric and English Literature.

LINVILLE LAURENTINE HENDREN, Ph.D., Professor of Physics and Astronomy.

JOHN MOORE READE, Ph.D., Professor of Botany.

ERNEST LEE GRIGGS, Associate Professor of Civil Engineering.

URIAH HAROLD DAVENPORT, B.S., Associate Professor of Electrical Engineering.

ROSWELL POWELL STEPHENS, Ph.D., Associate Professor of Mathematics.

HOMER VAN VALKENBURGH BLACK, Ph.D., Associate Professor of Chemistry.

ROBERT PRESTON BROOKS, B.A., (Oxon.) Adjunct Professor of Georgia History and Sociology.

WILLIAM OSCAR PAYNE, A.M., Associate Professor of History and Political Science.

MARION DERELLE DuBOSE, A.M., Adjunct Professor of English Language and German.

SANDFORD MEDDICK SALYER, A.B., Instructor in Rhetoric and English Literature.

ROBERT SPENCER POND, Ph.D., Instructor in Mathematics.

ERALBERT TALMADGE MILLER, B.S.C.E., Instructor in Physics.

CHARLES HOLMES STONE, Student Assistant in Drawing.

Special Lecturers.

BENJAMIN ALBERT CRANE, B.S., Cotton Grading.

ROBERT HATTON LOVEJOY, B.S., B.L., Forest Law.

GENERAL STATEMENT

The Georgia State College of Agriculture constitutes an integral part of the University system, and while it has certain buildings, lands and equipment set aside for the special use of its corps of instructors and students, its work in general is closely associated with the University proper, so that agricultural students enjoy all the advantages which a great university system affords. These advantages include instruction, advice from the professors in other colleges, use of the general libraries and scientific laboratories, and membership in the various class and society organizations. This is most desirable, since class-room training is but a part of a man's education.

OBJECTS OF THE COLLEGE.

The purpose and plan of the Agricultural College is, first to train agricultural students in the sciences pertaining to correct farm practice in order that they may receive a thorough and liberal education; second, to so arrange the course of instruction that men of limited means, opportunity and education may receive the greatest practical benefit by attending courses of varying length provided for in the College; third, to take an active part in the dissemination of agricultural knowledge among the farmers of the State by means of extension teaching, farmers' institutes, and bulletins and publications of a popular and practical nature.

AGRICULTURAL HALL.

The agricultural hall was dedicated on January 18th, 1909, with appropriate ceremonies. The building is 264 feet long by 72 feet wide, three stories in height, beautifully proportioned, and is, architecturally, a very pleasing structure. It is constructed of cream-colored pressed brick, Bedford limestone for the foundation and terra cotta trimmings in designs symbolical of the purpose to which the building is devoted. The roof projects so as to form wide eaves and is covered with red tile. The building contains 60,000 square feet of floor space and is dedicated especially for instruction in agriculture and the prosecution of research work. It contains sixty large rooms, and few buildings devoted to agricultural instruction, afford better facilities. Provision has been made for administration offices, and for suites of rooms containing offices, private laboratories, class rooms, and also for student laboratories for the departments of agronomy, animal husbandry, dairy husbandry, cotton industry, horticulture, forestry, farm mechanics, veterinary medicine, bacteriology, entomology, agricultural chemistry and extension teaching in agriculture. Besides these several suites of rooms, there are four large class rooms, a library and reading room, and an auditorium with a seating capacity of four hundred. The building is heated by steam and lighted by electricity, and will have the necessary refrigerating apparatus for the manufacture of dairy products and the investigation of plant and animal diseases.

It affords admirable quarters for the students of the State College of Agriculture and those charged with the conduct of its work, the lack of which in years past has been responsible in large measure for the failure of agricultural education to make greater progress.

THE CAMPUS.

The grounds of the College of Agriculture are situated about a half-mile from the present center of the University. The College building is situated upon the brow of a commanding hill, where unusual advantages for landscape gardening and the making of a most beautiful campus are afforded. The grounds are being rapidly improved and already there is a large collection of specimen trees and shrubs about the building as well as model roads and walks. Those interested in landscape gardening and in studying the native trees of our state, as well as those imported from other countries, will find the campus instructive.

THE LIBRARY.

The library occupies a large, well-lighted room on the main floor of the Agricultural Hall and is fully equipped with Library Bureau furniture. A good collection has been made of standard books on all Agricultural subjects and of reference books, including Government publications, stud, herd and flock books of the leading Breeders' Associations, encyclopedias, bound bulletins and bound publications.

About seventy-five agricultural journals, both monthlies and weeklies, a number of daily and weekly newspapers are received in the library and serve to keep the students in touch with the world of affairs.

The library is open for use of students from 9 a. m. till 6 p. m. on week days and books may be taken out for home use for a period of two weeks.

LABORATORIES

The success of instruction in agriculture will depend largely on the thoroughness and efficiency of the laboratory training. Large laboratories have been provided, with furnishings and equipment of the latest design and the best that can be secured for the particular end in view. Below will be found a brief description of these laboratories.

AGRONOMY LABORATORIES.

Two laboratories, occupying the east end of the main floor, are used by the department of agronomy. One of these is furnished with center and wall desks and laboratory tables for soil work. A complete equipment of soil tubes, shakers, centrifuges, water baths and ovens has been provided so that each student may work out independently the problems assigned him. The apparatus is used in a series of experiments designed to give the student an insight into the physical and mechanical condition of the various types of soils occurring in the state.

The other laboratory is devoted to the study of farm crops, including seed testing, cereal judging, grasses and forage crops. It is provided with wall cases for specimens, and laboratory tables for the use of the students. Various kinds of seed racks and seed-testing apparatus constitute a part of the equipment. A sufficient supply of sieves, magnifiers and microscopes are available for the prosecution of the various lines of work, and ample facilities are given all students who wish to specialize.

ANIMAL HUSBANDRY LABORATORIES.

In the College building about seven thousand feet of floor space has been set aside for laboratories to be used in theoretical and practical instruction in dairying. Sufficient funds have not been available to equip this department fully up to the present time, though enough apparatus has been secured to get the work well under way. In the butter making laboratory are various makes of separators, both hand and power, which not only give the student a knowledge of how to set up and operate centrifugal separators, but enable him to determine from actual tests the make, type and capacity of machines that will best meet his individual needs, both for factory and farm dairies. So far this laboratory has been equipped more in the nature of a farm dairy than as a centralized creamery, and the churns and butter workers are of small capacity. Additional apparatus will have to be purchased next year, as the 86 men taking work in dairying the past year overtaxed the present equipment. Factory machines will be installed later.

The milk testing laboratory is a well lighted, spacious room in which are several models of Babcock testers, both hand and power design. The importance of a rapid and accurate means of determining the amount of butter fat in skim milk, whole milk and cream has become duly recognized. No one, whether producer of milk, or manufacturer of butter and cheese, can successfully conduct his business without being familiar with this test. Various methods for determining the lactic acid content of milk are available, and the students are made thoroughly familiar with this important phase of successful dairying. In addition to the above tests, facilities are provided for instruction in determining the solids not fat, as well as making curd tests.

In recent years, under prevailing market conditions, the necessity for sanitary, wholesome dairy products that will stand long storage and transportation by rail has increased to such an extent that the pasteurization of milk and cream has become one of the important branches of the dairy industry. For this reason a separate pasteurizing laboratory has been provided in the dairy department.

In the production of palatable, sanitary products which will command the highest prices on the open market, it is necessary that the producer have some means of controlling the temperature of the milk during different stages while it is being prepared for the consumer, or in the ripening, storing and holding of the different dairy products. Ample refrigerators have been provided for conducting experimental work along these lines.

Herd, flock and stud books of most of the leading breeders' associations have been secured, so that the students can become familiar with the different methods and forms of tabulating and keeping pedigrees. These books are used as a supplement to the work in animal breeding, to familiarize students with the combinations of blood lines that have gone to produce the highest type of animal.

On the College farm several breeds of live stock are maintained. Accurate records of their feed and production are kept, and the various experiments in breeding and feeding supplement and verify the work given in the laboratory and class room.

HORTICULTURAL LABORATORIES.

There are three laboratories in this department. A student laboratory and a private laboratory are in the Agricultural College building, and the third, a spraying laboratory, is on the horticultural grounds, which are located about four hundred yards southeast of the building. The students' laboratories will accommodate about thirty men, and are fitted with the necessary apparatus. The private laboratory, containing a culture room, fume hoods and other essential fixtures, is reserved for research work pertaining directly to horticulture. In the office of the department, which connects the student and private laboratories, is a vault for the safe keeping of records and other valuable papers. Besides the above, there are a barn, a tool-shed and a spray house which afford ample room for the storage of all implements necessary on a fruit farm.

Cotton Industry Laboratory.

A systematic study of cotton fibre with a view to the improvement of the fibre and the increase in yield, depends upon laboratory facilities, and as the courses offered in the department of cotton industry will be largely laboratory courses, provision has been made for every facility for conducting the work. Opportunities are offered for combing and mounting the different varieties of cotton in a comparative study of individual merit, for an investigation of the basis on which classification and grades of lint cotton depend, and for ascertaining the breaking strength of the individual fibres of all varieties and grades. For a study of the nature of cotton fibre, the best and latest model student microscopes are used.

In connection with this department there is also a research laboratory to which graduate and special students have access. This laboratory is designed to work out problems of a more general nature as they arise in connection with the study of cotton breeding, the nature and cause of the loss in milling cotton, and the like.

Located as it is, in the center of the cotton belt, it is believed that this laboratory will prove ideally situated for working out all problems connected with the South's greatest industry—cotton growing.

FARM MECHANICS LABORATORIES.

The Farm Mechanics laboratories are located in the east end of the ground floor of the main building and in the new Farm Mechanics building just back of the main building. This latter building is a combination of brick, frame and reinforced concrete, is 40x100 feet inside measurements and two stories high.

The laboratory located in the main building is 33x70 feet, and is used for drawing and surveying. It is equipped with 50 of the latest drawing tables with parallel attachments, blue print frame and washing pan. Blue prints can be made up to 36x40 inches. With the present equipment ten parties may be put into the field for farm surveying. This equipment consists of five complete Bustrom and Brady farm levels and compass combination instruments, five Keuffel and Esser combination farm transits, one convertible engineering level, a transit for advanced work, a full line of tapes, pins, hatchets, poles and target rods for equipping each party. In addition nine plane tables have been added.

Farm Machinery Laboratory.

The farm machinery laboratory is located in the new Farm Mechanics building, and occupies the whole of the second story. It is equipped with a full line of the latest farm machinery. An acetylene plant has been installed and its adaptability to the farm home demonstrated for lighting, heating and cooking. A full line of pumps, hydraulic ram, windmill and gasoline engines illustrating the different water supply systems, will be installed.

A full supply of plumbing material, applicable to farm conditions, has been placed in the stock room and a plumbing stand for the practical work in installing plumbing and drainage on the farm is provided.

Forge Shop.

The forge shop, located on the ground floor in the east end of the Farm Mechanics building, is equipped with twelve of the latest models of the Buffalo Forge Company's heavy cast-iron forges. The blast and exhaust of these forges is taken care of with the proper sized fans located in the supply room. These fans are driven by an electric motor which also supplies power for the emery wheel grinder and polisher. Each forge has coal and water boxes and a full supply of forge tools. Additional equipment such as vises, drill, emery wheel, polisher and grinder, and benches, is provided.

Wood Shop.

The wood shop is located in the west end of the ground floor and occupies the same sized room as the forge shop. The equipment of this shop consists of benches for twenty-four students, planer, matcher, rip and cut-off saw, band saw, and turning lathe. Each bench is equipped with a full set of chisels, saw, mallet, try square, thumb guage, oil stone, oil can and bench brush. A bench hook is supplied with each full bench equipment. Each bench has a vise attached.

Display and Assembling Rooms.

Between the wood shop and forge shop is the display and assembling rooms, and the supply and tool room. In the tool and supply room is kept a full supply of wood, iron and steel for both shops; planes, saws, hammers, squares, etc., for the wood shop; drills, guages, callipers, etc., for the forge shop. The display and assembling room is used by the student as a place for putting together furniture and for doing other wood work, also for the display of models for farm buildings.

The class room for all the lectures and recitations is located in the main agricultural building, next to the drawing and surveying laboratory. It is equipped with fifty-two adjustable arm seats, lecture desk, blackboard, etc. The lecture desk has water, gas and sink connections.

VETERINARY SCIENCE LABORATORIES.

The laboratories of this department consist of several large rooms occupying the west end of the main floor of the College building. A small room opens into each of the large laboratories, the arrangement being adequate to accommodate the classes in laboratory work and for the storage of the various materials necessary.

The laboratories are well lighted, have a north exposure, are admirably suited for microscopic work, and are supplied with water, gas and electricity.

The histological and pathological laboratory is furnished with double biological desks which are fitted with drawers and compartments for microscopes and other instruments and accessories used by the students in the work of these courses. Microtomes, a Naples Water Bath, mounting media, stains and reagents, with the necessary equipment of glassware are supplied for the use of students. A large wall cabinet in this room contains an exhibit of specimens and models of diseased organs and parts.

A steel enameled instrument cabinet with a fine equipment of surgical instruments occupies a corner of the private laboratory.

A small room in the suite is fitted up as a pharmacy. Here is found a large stock of drugs and medicines used in veterinary practice, together with an equipment of percolators, filters, mortars and pestles, scales, pill tiles, etc., for the study of Materia Medica and Pharmacy. A case of specimens of nearly two hundred crude drugs is also a part of the equipment.

The bacteriological laboratory devoted to the study of disease producing germs is fittted with biological desks, wall cabinet, wall desk, and cabinet of microscopic slides. This laboratory is equipped with high power microscopes with the best oil immersion lenses, hot water bath, steam pressure sterilizer, hot air sterilizer, incubator, culture media and all necessary accessories.

The small room connected with this laboratory is so constructed that it is free from draughts of air and temperature variations are reduced to a minimum. This is used as an incubator room and is fully equipped.

An equipment of skeletons, models and charts of farm animals is used to illustrate the studies of anatomy during the warmer months.

THE VETERINARY HOSPITAL.

The veterinary hospital recently built is provided with box stalls for sick animals, bath stall, clinic room, operating room, dissecting room, office and dispensary, and room for attendant. A complete equipment of hopples, side lines, slings, casting harness and operating tables is provided together with dental, operating and obstetrical instruments and appliances. Clinics at which sick or injured animals are treated free of charge are held at stated periods throughout the school year, and students are trained in the diagnosis and treatment of diseased animals and are required to prepare and administer medicines by the various methods. Especial attention is paid to instruction in the care of sick and injured animals, and the hygenic conditions which should surround them. A score card system of examination of animals for diseases, unsoundness and blemishes is used.

The dissecting room is used during the colder months in the study of anatomy and physiology. Students are required to dissect and study the various parts of farm animals and to observe the location of the internal organs and the principal blood vessels, nerves and other structures.

The manufacture of hog cholera serum gives opportunity for frequent autopsies on hogs. These furnish valuable material for study in contagious and parasitic diseases of swine. Much reliable information is imparted to students by this means.

HOG CHOLERA SERUM.

The 1911 session of the General Assembly passed a bill appropriating the sum of $3,000 for the purpose of equipment and manufacture by the veterinary department, of Dorset-Niles hog cholera serum. This substance is the best known preventative of cholera in swine, and the manufacture by the College is for the purpose of instructing the students concerning swine diseases and the process of manufacture and administration. The serum is supplied to swine owners at cost of production on orders from the State Veterinarian. In some cases to avoid delay, serum is shipped directly to the swine owner accompanied by explicit directions for administering.

The 1912 session of the General Assembly appropriated an additional $3,000 for maintaining and enlarging the serum plant to meet increased demands. A modern sanitary hog house capable of housing sixty hogs, has been erected. Serum is furnished at 2c per cubic centimeter.

AGRICULTURAL CHEMISTRY LABORATORIES.

The courses of instruction offered in this department are designed to prepare students for practical work. Well equipped laboratories are necessary that this may be done.

The laboratories occupy the west end of the top floor of the College building, the main laboratory being well ventilated and lighted from three sides. These laboratories are well equipped with new and modern desks, hoods, tables for microscopic work, and apparatus acccommodating sixty to seventy-five students. Adjoining the main laboratory is a well-lighted balance room equipped with the most accurate balances.

Adjoining the instructor's office is a private laboratory separated from the main laboratory by the store-room which opens into both laboratories. This laboratory is equipped for the analysis of soils, feeds, fertilizers, waters, etc.

Each desk in the laboratory is supplied with gas, water and sinks. Ample facilities are offered for students specializing in the different branches of analytical work, such as soils, feeds and other agricultural products.

The library is supplied with a number of the best reference books on chemical subjects.

During the past year an additional laboratory has been equipped with modern apparatus for the analyses of the soil types of the State. The department is conducting a soil survey of the State in coöperation with the Bureau of Soils. All types in the several counties surveyed are collected and sent to the laboratory for chemical analyses.

THE COLLEGE FARM.

Contiguous to the main building and extending in the rear for more than a mile, lies the College farm, consisting of 830 acres. This land is varied in character; some of it rough and broken, while other sections are fairly level; portions are well wooded, and a diversity of soils is found. This diversity is not objectionable from one point of view. It will admit of tests applicable to the types of soil found in many sections of the state.

For a number of years a large part of the land had been rented and handled in a very careless manner. No crop rotation system had been followed, and very little live stock had been kept on the farm. As a result, the land was badly eroded in many places, and in poor physical condition. Winter and summer legumes are now being used for the purpose of adding nitrogen and humus to the soil. Attention is being given to the construction of terraces and drains, and much loose stone and trash has already been removed from the land. While these operations have been costly, they form an excellent object lesson for students in the reclaiming of exhausted soils, and it is only a question of time when the farm will be put on a still more highly satisfactory basis from both a physical and a financial standpoint.

The farm has been accurately surveyed and mapped; first with the idea of beautifying it as fast as funds become available by laying out the necessary roads and walks and locating such additional buildings as will be required from time to time with due regard to desirable landscape effects; and second, by the U. S. Department of Agriculture, so that all the soil types found might be defined and their physical characters ascertained. Thus when experiments are undertaken combining a physical and chemical study of the soils, results of accuracy and value may be expected.

THE COLLEGE BARNS.

The funds available for the erection of barns were so limited that these structures have been made very plain, though substantial. As the cost of these buildings is low, they can be copied advantageously by any farmer, a consideration of much practical importance. The dairy barn is 40x70 feet, and contains stalls for thirty-two cows and seven horses, besides one box stall. There is also an office, a milk room and a boiler house. A 135--ton silo is connected with the barn by a feed-mixing and weighing room, and there is ample space for the storage of rough feed. A bull house, the necessary paddocks for young stock, a blacksmith shop, machine shed, and individual hog houses have also been erected near the dairy barn.

A beginning has been made at erecting the main stock barn on the College farm. However, only a sufficient amount of money was available for building and partially completing the storage space of this barn. The part which has been erected is of the most modern construction, and nothing but the best material has been used. It is 40x120 feet, and 40 feet high. An office, bed-room and storage room have been provided for on the first floor,and the remainder of this floor will be used for grain and feed bins and as a mixing and grinding room. The entire second story is for roughage, and has a capacity of 500 tons of loose hay. This barn, when completed will represent an investment of approximately $10,000. The herds have grown to such size that it will have to be completed within the next year.

LIVE STOCK.

The Dairy Herds.

The establishment of herds and flocks is an expensive undertaking, and the limited funds available made it necessary for the College to exercise care and discretion in the organization of this feature of the work. Substantial progress is being made, however. Fifteen pure bred Jersey females and two herd bulls are now owned by the College, and in addition there are thirty grade Jerseys in the herd. The Holstein herd consists of one bull, twelve pure bred females, and eleven grade heifers. Twenty three heifers are now in milk which have been raised by the College since the herd was established in 1907.

The Beef Herd.

A considerable portion of the College farm is in a depleted and worn condition. Sufficient funds have not been available for rapidly improving this abandoned land. For the present it is being utilized as a beef ranch. The herd consists of twenty-four grade Hereford females of breeding age, and one registered bull, besides twenty three younger animals. This affords a valuable object lesson in the utilizing of unoccupied land, as well as in affording representatives of the beef type for stock judging by students.

The Hog Herd.

A herd of pure bred Tamworths (representatives of the extreme bacon type of hog), and Berkshires are maintained on the farm. Owing to the importance of this industry in the state, it is expected that sufficient funds will be made available for inaugurating breeding and feeding experiments along the line of pork production.

Work Stock.

A total of nineteen horses and mules is owned by the College farm. The mules are of superior quality and represent different types, including medium heavy plantation mules, sugar mules and heavy draft mules. The stallion and breeding mares are also used as farm workers, and all of the stock is used for teaching work in stock judging. On account of this requirement, the department hopes to maintain a greater number of animals, and more types than will be absolutely needed for farm work, and all of the herds should be increased rapidly.

Horse Breeding.

The stud consists of one pure bred Percheron stallion, two registered Percheron mares and three high grade Percheron mares, besides one filly. Since this breeding animals have proven such valuable work stock, more mares should be added to the stud.

On account of the importance of this work, both from the standpoint of increasing the work stock on the College farm, and the beneficial demonstration for the students and the farmers of the state, the work in this department will be prosecuted as rapidly as funds will permit.

THE DEMONSTRATION FIELD.

A field of twenty acres has been set aside for experimental work. This area of land has been subdivided into more than 1,000 plats, ranging in size from $\frac{1}{50}$ to $\frac{1}{10}$ of an acre. Through the medium of this experimental field, nature is constantly being asked questions, and new facts of interest are being brought to light by actual field tests; the value of principles and theories developed through laboratory research is determined, and thus the education of the student is made more perfect and complete, since he not only receives instruction in theory in the class-room, but has the underlying scientific principles fully demonstrated to him in the laboratory, and sees the actual results which follow the application of these principles in farm practice.

Much attention will be given in the demonstration field to the development of strains of cotton, corn and other farm crops of better quality than those ordinarily grown. The relation of fertilizers to crop production, the influence of various methods of cultivation, the value of crop rotations, and the merits of new and interesting varieties of farm crops will be fully tested, and not only will they be made a part of the knowledge of the student body, but the result will be prepared in pamphlet form and distributed free of cost to the farmers of the state. This feature of the work will thus be made to serve several useful and important economic purposes, as well as provide a definite type of information for agricultural students.

In connection with the department of cotton industry, there will be special plats set aside for conducting experiments in cotton breeding, both by selection and hybridization, and students will be given opportunity to see the results of their own experiments. There will also be arranged a variety test of all the leading varieties of cotton. During the growing and harvesting seasons, students will be required to write full descriptions of varieties, in order that they may be able to distinguish one variety from another, and at the same time acquire the habit of studying the cotton plant.

ORCHARDS AND GARDENS.

About thirty-five acres of the College farm have been set aside for horticultural purposes. The land is rolling, and, with the exception of one or two acres of sand, which will serve well for truck crops, the soil is red clay. The field has been plotted and a variety orchard planted, in which all the varieties of apples, pears, peaches, plums and other fruits recommended for this section are well represented, so that a comparative study of their qualities can be easily made. As rapidly as funds will permit, a truck garden will be brought into shape, experimental plats laid out, a commercial orchard started. A plantation of small fruits is already well established. For the benefit of the fruit growers at large the horticultural grounds will serve as a testing field for all new varieties and also as a laboratory in which to experiment upon and demonstrate to the students all practices of orchard and garden management.

THE AGRICULTURAL CLUB.

The students of the College have an organization of their own, known as the Agricultural Club, which meets every two weeks. The purpose of the society is to obtain drill in parliamentary practice and in declamation and debate, as well as to discuss the scientific and practical phases of many important agricultural problems. The club publishes a Quarterly, which is not only distributed quite widely among the student body, but is circulated over the state. This publication forms a desirable medium of communication between the students and the farmers, and furnishes useful literary training to the students as well.

HORTICULTURAL CLUB.

The students interested along horticultural lines have organized a club which meets semi-monthly for the discussion of live problems in this field of agriculture. At the 1912 meeting of the State Horticultural Society the student members of the College Horticultural Society were rated active members of the state organization upon the payment of one-fourth of the annual dues of the State society.

FEES AND EXPENSES.

Attention is called to the remarkably low cost of a full collegiate year in the College. By rooming in the dormitories a young man can live at the University almost as cheaply as at home. This should encourage a large number of young men to avail themselves of the special advantages which the four-years course or the one-year course will confer upon them.

The expenses are as follows:

Room rent in College dormitories, $2.50 per month. This includes electric lights, heavy furniture and care of room. The students provide fuel, mattress, bed furnishings and toilet articles. Board in Denmark Dining Hall costs $10.00 a month on the co-operative plan. Room rent and board are paid monthly. Furnished rooms in private families may be secured from $2.50 to $5.00 a month for each occupant.

Laundry will cost about $1.25 a month, and books about $10.00 a year. All students are required to join one of the literary societies, the initiation fee being $2.00.

Uniform for the military department will cost about $16.00. This will last two or three years.

In short, the necessary expenses of a student for the college year of nine months need not exceed $175.00 to $200.00.

Expenses for short term students are in proportion to those for long course students. The cost of attending the Short Courses will vary from $15.00 to $25.00, depending on railroad fare.

PUBLICATIONS.

The Georgia State College of Agriculture through its extension department, publishes circulars of information on pertinent topics from time to time. These circulars are distributed free of cost to farmers residing in the State. A series of educational bulletins is now in course of preparation, and several will be distributed during the year. These will summarize in a practical manner the results of investigations, for example, with cotton and corn, and will prove especially valuable for reference to all progressive farmers. It is expected that this series will be developed from year to year until eventually a first-class reading course and farmers' library will be the result. A press service is also sent out to all the papers of the State. Thus the College is taking an active part in endeavoring to disseminate the vast fund of useful information which has accumulated as a result of the researches of the agricultural colleges and experiment stations within the last few years.

PRIZES AND SCHOLARSHIPS.

Through the generosity of the various friends of agricultural education the following scholarships and prizes have been offered to students. The coöperation of the good friends who have made it possible to offer these prizes is heartily appreciated.

LIST OF PRIZES

Awarded at Commencement, 1913.

Junior Scholarship, $50.00 in gold, given by the Virginia-Carolina Chemical Co., Richmond, Va., to the student showing the greatest proficiency in all agricultural subjects for the College year 1912-13.

Sophomore Scholarship, $40.00 in gold, given by the Virginia-Carolina Chemical Co., to the student showing the greatest proficiency in all agricultural subjects for the College year 1912-13.

Freshman Scholarship, $25.00 in gold, given by the Virginia-Carolina Chemical Co., to the student showing the greatest proficiency in all agricultural subjects for the College year 1912-13.

One-year Agricultural Course, $25.00 in gold, given by Virginia-Carolina Chemical Co., to the student showing the greatest proficiency in all agricultural subjects for the College year 1912-13.

$25.00 in gold, given by the Board of Trustees to the student writing the best essay on "The Benefits which the Experiment Stations have conferred on Southern Agriculture."

$25.00 in gold, given by the American Coal Products Co., New York, N. Y., to be divided into two prizes of $15.00 and $10.00 respectively, for the best essay on "Sulphate of Ammonia as an Economic Source of Nitrogen, and its Use in Agriculture."

Separator, valued at $75.00, given by the DeLaval Separator Co., New York, N. Y., to the student showing the greatest proficiency in dairy work.

One Silver Cup, given by T. W. Wood & Sons, Richmond, Va., to the student in the one-year course writing the best essay on "Farm Crops."

$10.00 in gold, given by H. G. Hastings & Co., Atlanta, Ga., to the student writing the best essay on "The Relation of Soil Improvement to Crop Production."

$10.00 in gold, given by H. G. Hastings & Co., Atlanta, Ga., to the student writing the best essay on "The Influence of Seed Selection on Increased Yields."

Two Scholarships, valued at $250.00 each, offered by the Southern Railway Company.

One Scholarship, valued at $250.00, given by H. G. Hastings & Co., Atlanta, Ga.

One scholarship, valued at $100.00, given by Hon. Gordon Lee.

One Scholarship, valued at $100.00, given by the Atlanta Corn Show.

TERMS OF ADMISSION.

Students must be 16 years of age.

Four-year Degree Course: Admission to the four-year degree course requires 14 units. A student can enter, however, conditioned in 2 units, provided he is a graduate of a school that does not give full 14 units. Certificates will not be accepted for 12 units from those schools that require 14 units for graduation.

Required Subjects.

English, 3,
Geometry, 1,
Algebra, 1½,
History, 2,
Foreign Language, 2 units.

Not more than 6-½ units can be selected from the following: Solid Geometry, ½; Agriculture, 3; Physical Geography, 1; *Drawing, 1; Physics, 1; Physiology, ½; Botany, 1; Zoölogy, 1; Chemistry, 1; *Manual Training, 2; *Commercial subjects, (Typewriting, Shorthand, etc.), 2; Additional—History, Mathematics, English, or Foreign Language, each 1.

*Not more than three units will be allowed in freehand drawing, manual training and commercial subjects.

Only one conditioned unit will be allowed in a required subject, with the exception of foreign language, where two will be allowed. Upon entrance, conditioned students must submit plan to the president showing how they will make up these conditions. If at the beginning of the sophomore year these conditions are not removed, the head of the College will designate certain courses to be taken for their removal.

After a student has taken a college course in a subject, he cannot stand entrance examination on that subject to remove conditions, except for required subjects.

A certificate cannot be corrected after the beginning of the second term. Entrance examinations will be held at Athens and throughout the state on June 11th, 12th and 13th, and September 15th, 16th, 17th and 18th.

Summary of Work Required to Secure Above Units.

A study of English Grammar, Rhetoric, and a number of English Classics, as Shakespeare, Milton, Tennyson.

A study of Arithmetic, High School Algebra and Plane Geometry.

A study of two of the following history groups: Ancient History, English History, American History and Civics, Modern History.

A study of a foreign language. Any foreign language can be offered, but in case the student is conditioned he will be expected to take either German or French.

For further information ask for special bulletin on entrance requirements.

A unit's credit will be given for work in Physical Geography, Physics, Botany, Chemistry, Physiology, and ½ unit in Zoölogy, where the work has covered a standard text and laboratory work.

One unit will be given for work in general agriculture, and one unit each in Agronomy, Animal Husbandry, and Horticulture. In each case the student must have had the required laboratory work.

Drawings must be presented by students who wish credit in either free hand or mechanical drawing or in the combination of the two, for one unit.

Students having finished approved courses in both wood and forge work that has covered a year's work of five periods a week of 1-½ hours each, are entitled to two units, or one unit for either.

An approved course in Bookkeeping, Shorthand, and Typewriting will be accepted as 1 unit. Double periods required.

For further information in regard entrance send for special bulletin.

One-Year Course. Students 18 years of age who have had at least three months actual farm experience are admitted to this course without examination, at the discretion of the executive officer of the College. Students should bring with them evidence of their farm experience, otherwise they will have to be examined on this point. They must, of course, have a good common school education in order to benefit by the instruction provided, and must be diligent and faithful in the prosecution of their studies. These students are not candidates for degrees.

SPECIAL COURSE IN COTTON INDUSTRY.

The department of cotton industry is a newly organized department in the State College of Agriculture, and is designed to meet the special needs of a cotton-growing community. Students, therefore, who are desirous of specializing in the work will have the opportunity of electing all the courses of instruction offered by the department, provided they select from allied subjects a sufficient amount of work to meet the University requirements. A special course of 30 days duration is offered in July to all who desire to specialize in cotton grading and related subjects.

CONFERENCE FOR FARMERS AND FARMERS' WIVES.

An annual conference is held during the month of January for the purpose of bringing the farmers and their wives more intimately into touch with the work of the College. The conference lasts for a week, and during that time a great variety of topics are discussed. The Farmers' Conference is a modified school, with its work so adjusted as to give the busy farmer and his wife a pleasant holiday outing, and at the same time enable them to acquire information which will be of service to them throughout the year.

SELF-HELP.

It is the purpose of the College to encourage students to work as much of their time as possible for both economic and practical reasons. In this way the cost to the student may be reduced considerably, and his knowledge of how to apply scientific principles in farm practice may be materially broadened. It is both important and necessary that labor with the hands should be recognized as honorable and essential to the welfare of an agricultural people.

Students in the College of Agriculture have the same opportunities of securing help from the Charles McDonald Brown Scholarship Fund as those in other departments of the University at Athens. The interest on this fund is lent to worthy young men on condition that they obligate themselves to return it with four per cent. interest. Applications for scholarship should be made to the Chancellor of the University. A special circular of information concerning the fund and blank forms of application will be supplied on request. This fund makes it possible for many young men of limited means to take advantage of the opportunity which the College offers for securing an education.

COURSES OF INSTRUCTION.

The four-years course provides for a liberal and thorough training along scientific lines in agronomy, soil fertility, animal husbandry, dairy husbandry, horticulture, farm mechanics and cotton industry. General training in chemistry, physics, botany, biology, English and mathematics is also provided. Since the field of agricultural education is so broad that it is quite impossible for a student to pursue all the courses offered in four years, certain fundamental studies are prescribed, and the largest liberty of selection commensurate with the best interests of the student, permitted. In this way the student is enabled to select a course which is more in keeping with his taste, and at the same time he can obtain sufficient special training to fit him better for the special line of work he desires to pursue upon graduation.

The one-year course is provided for men who have only a limited amount of time and money at their disposal, and who in many instances have not the fundamental training which would enable them to pursue a four-years course of study advantageously. Men of this class, however, who desire to farm, can improve their knowledge and ability to manage farm problems intelligently by pursuing this course, at a moderate cost. Naturally, the training provided for in this course is of a more restricted and practical nature, as its character and intention make necessary.

The three-months course and the ten-day courses and conferences are provided for those actually engaged in farming or interested directly or indirectly in it who desire to obtain the largest amount of practical knowledge which they can apply immediately and with profit, at a minimum of cost. These courses confer great benefits upon all who pursue them, and are to be commended particularly to men varying in age from 25 to 60 years who have not had the benefits of agricultural training in the past, and are therefore at a loss to know where to look for information and very often how to apply it successfully even after they have acquired it.

DEGREE.

The degree of Bachelor of Science in Agriculture is conferred on those who complete the four-year course. Those who desire special information relative to any part of the course may obtain it by writing to the college authorities. An outline of the degree course is as follows:

BACHELOR OF SCIENCE IN AGRICULTURE.

Freshman.		Sophomore.	
Agronomy 1, 2	2 hrs.	Animal Husb. 2, 3, 4 and 5	4 hrs.
Animal Husbandry 1,	1 "	Botany 1,	3 "
Farm Mch. 1, 2, 3, 4, 5,	3 "	Agr. Chemistry 1 and 2,	4 "
Horticulture 1, 2 and 3,	3 "	History 2 or 4,	3 "
English 1,	3 "	English 2,	3 "
Chemistry 1,	3 "	Physics 3 or 5,	3 "
Mathematics 1 and 2	3 "	Veterinary Science 1, 2,	3 "
Military Science	1 "		
	19 hrs.		23 hrs.

General Agriculture.

Junior.		Senior.	
Agr. Chemistry 2*b* and 3*b*,	4 hrs.	Agr. Chemistry 4*b*,	4 hrs.
Agronomy 5, 6,	4 "	Animal Husb. 6, 7, 8,	3 "
Agronomy 3, 4,	3 "	Veterinary Science 3, 4,	3 "
Farm Mch. 6, 7,		Cotton Industry 4, 5,	3 "
Botany 2,	4 "	Farm Mech. 8, 9,	1½
Bacteriology	3 "	Forestry	1½
Entomology			
Elective	3 "	Elective	6 hrs.
	20 hrs.		22 hrs.

Agronomy.

Agr. Chemistry 2*b* and 3*b*,	4 hrs.	Agr. Chemistry 4*b*,	4 hrs.
Agronomy 5, 6,	4 "	Agronomy 7,	4 "
Agronomy 3, 4,	3 "	Cotton Industry 7,	4 "
Farm Mch. 6, 7,		Farm Mch. 8, 9,	1½
Cotton Industry 4, 5,	3 "	Forestry 3,	1½
Bacteriology	3 "		
Entomology			
Elective	4 "	Elective	6 hrs.
	21 hrs.		21 hrs.

Animal Husbandry.

Agr. Chemistry 2*b* and 3*b*,	4 hrs.	Agr. Chemistry 4*b*,	4 hrs.
Animal Husb. 6, 7,	3 "	Animal Husb. 8, 9,	6 "
Poultry Husb. 1,		Veterinary Science 5, 6	3 "
Vet. Medicine 3, 4,	3 "	Farm Mechanics 8, 9,	1½
Agronomy 5, 6,	4 "	Forestry 3,	1½
Farm Mechanics 6, 7,	1 "		
Bacteriology	3 "		
Entomology			
Elective	3 "	Elective	6 hrs.
	21 hrs.		22 hrs.

Horticulture.

Agr. Chemistry 2*b*, 3*b*, or Botany 2,	4 hrs.	Agr. Chemistry 4*b*, or Botany 6,	4 hrs.
Horticulture 4, 5, 6, 7, 8, 9,	6 "	Horticulture 10, 11, 12,	6 "
		Cotton Industry 5,	1 "
Farm Mechanics 6, 7,	1 "	Farm Mch. 8, 9,	1½
Agronomy 5, 6,	4 "	Forestry 3,	1½
Bacteriology	1½		
Entomology	1½		
Elective	4 hrs.	Elective	6 hrs.
	22 hrs.		20 hrs.

Chemistry.

Agr. Chemistry 2, 3,	9 hrs.	Agr. Chemistry 4	9 hrs.
Agronomy 3, 4,	2 "	Animal Husb. 6, 7, 8,	3 "
Agronomy 5, 6,	4 "	Cotton Industry 6,	1½
Bacteriology	1½	Geology	1½
Entomology	1½		
Elective	3 hrs.	Elective	6 hrs.
	21 hrs.		21 hrs.

Foreign Language.

Students who do not present two units of a foreign language at entrance may take a foreign language in the Freshman and Sophomore years, and carry over Mathematics and Physics into the Junior and Senior years.

Those desiring to study medicine may continue the study of French and German in the junior and senior years, and thus prepare themselves for entrance into the highest grade medical schools of the United States.

Laboratory Periods.

In the College of Agriculture laboratory periods count one hour for two, and are included on that basis in the number of hours required.

Changes in Courses.

When changes are made in the courses, students may graduate under the curriculum in force when they enter or under the new curriculum, provided they conform to all of its requirements.

Electives.

The courses are arranged so that students may pursue a general course in the Junior and Senior years or specialize in Agronomy, Animal Husbandry, Horticulture, or Chemistry. Students who desire to specialize must elect a group in the Junior year and take the coördinate group in the Senior year. Before registering they must submit a written statement of electives for the year to the head of the department from which their group is chosen. Students who specialize will be required to write a thesis before graduation. The thesis must be on a topic related to the group selected in the Junior year.

BACHELOR OF SCIENCE IN FORESTRY.

The degree of Bachelor of Science in Forestry is given upon the completion of the studies outlined below. These studies have been chosen for their cultural as well as their professional value.

It is probable that the strictly professional studies will in the future be made post-graduate work, leading to the degree of Forest Engineer (F.E.); but at present only the bachelor's degree is given.

Note.—Candidates for this degree who do not offer two units in foreign language at entrance, must take a foreign language in the Freshman and Sophomore years in addition to the scheduled work.

Freshman.	hrs.
Shop Work (Mch. 1)	1½
Drawing (Mch. 2 and 2*a*),	2½
English 1,	3
Historly 2 and 3,	3
Mathematics 1, 2,	3
Physics 2,	4
Botany 1,	4
	21

Sophomore.	hrs.
Forest Surveying, (Mch. 5*a*) Saw Mill Construction (Mch. 5*b*)	4
English 2,	3
Mathematics 3,	3
Botany 2,	4
Chemistry 2,	4
Forestry 4,	3
	21

Junior.	hrs.
Saw Mill Machinery, (Mch, 7*a*) Timber Physics, (Mch. 7*b*) Wood Preservatives, (Mch. 7*c*)	4
Botany 9,	4
Zoölogy 2,	4
Analysis of Woods, Gums, Resins, and Derivatives, (Agr. Chem. 2*a* and 3*a*)	6
Forestry 5,	3
Geology	1½
	22½

Senior.	hrs.
Soil Physics (Agronomy 5 and 6,	4
Concrete (Mch. 8*b*) Forest Roads (Mch. 9*a*)	1½
Forestry 5,	2
Forestry 6,	2
Forestry 7,	2
Forestry 8,	4
Forestry 9,	2
Forestry 1,	3
	20½

AGRONOMY

JOHN R. FAIN, Professor.
G. A. CRABB, Adjunct Professor.
P. O. VANATTER, Instructor.
L. E. RAST, Instructor.

1. **Cereals.** The cereals studied include wheat, corn, oats, barley, rye and rice; sorghum, millet and buckwheat are studied briefly, in so far as the grains are used for food. The study of these cereals includes the origin, history, composition, cultivation and methods of improvement. In addition to text-book work, the cereals are grown in nursery rows convenient to the College, so that the student may study the plants first hand. The demonstration field is also used for the same purpose. Two hours. Second and third term. **Freshman.**

2. **Cereal Judging.** This is a laboratory course. The study begins with the seed and is followed up by the study of the mature plant and its relation to seed production. A part of this work is in the field and in the demonstration barn, so that the student is taught not only the various facts in regard to the development of the

cereals, but he acquires the habit of studying these plants in the field. The demonstration field and cereals grown in nursery rows form excellent facilities for this work. The germination of corn is given especial attention, and the records in the demonstration field are used in this connection, showing the relationship between the germination and growth of the various varieties tested. One laboratory period. Second and third term. **Freshman.**

3. **Farm Management.** Factors entering into the business of farming and maintaining farm lands are studied in their relation to each other, and to their proper influence on farm practice. Special attention is paid to ways of systematizing the business, and methods of maintaining the crop production of the land. In this connection a detailed study is made of rotation as adapted to Georgia conditions. Laying out the farm, methods of cropping, and records are studied. The cost of production and marketing is given special attention. The laboratory work will consist of conferences in which the results summarized from investigation by the student will be discussed. The student will be required to use "Rural Economics," by Carver, for parallel reading. Other reading assignments will be made from time to time. Two lectures and one laboratory period. First term. **Junior.**

4. **Grasses and Forage Crops.** The different varieties of grasses and forage crops are studied with reference to their yield, composition and feeding value. Special attention is paid to those grasses and forage crops that are adapted to southern conditions. As silage is undoubtedly the cheapest form in which forage crops can be prepared in this state, considerable attention will be given to the crops best adapted for silage, the best method of handling the crop and harvesting it. Three hours. Third term. **Junior.**

5. **Soil Physics.** A study is made of the origin of soils, the different forms of disintegration, and the physical properties of different types, especially in their relation to crop production. Laboratory experiments are required with type soils. Each student may substitute his home soil, or one of that type. This should be an average sample, taken from several places of the most uniform type from his home farm and community. In addition to the text, parallel reading will be assigned. Special laboratory work will be given forest students so that this course will meet their needs. Two lectures and two laboratory periods. First half year. **Junior.**

6. **Soil Fertility.** Factors in crop production and methods of controlling these are studied with especial attention to the influence of culture and fertilization. Methods of handling the soil, so as to permanently increase fertility, rather than for temporary crop production, are emphasized. Special attention will be given to the uses of commercial fertilizers and general soil management. Parallel

reading will be assigned. Forest students taking this course will be given laboratory work that will be adapted to their special needs. Two lectures and two laboratory periods. Half year. **Junior.**

7. **Advanced Work.** Students specializing in Agronomy will be allowed the privilege of either continuing soil work, or farm crops. The data accumulated from the demonstration field will be utilized as much as possible in this course. If the soil work is continued, considerable time will be given to pot tests, with two or three of the principle soil types of the state. Four hours per week. **Senior.**

COTTON INDUSTRY

R. J. H. DeLOACH, Professor.

1. **Laboratory Course in Combing and Mounting.** To meet successfully the demands of the cotton markets, growers must know the essentials of a good variety of cotton, and this course is offered to enable students to comb and mount samples of each variety for comparison. Offered to special students. One lecture and two laboratory periods of one hour each, per week. First term. Required of all men who elect cotton industry.

2. **Cotton Grading.** In this course will be given the essentials of cotton grading together with a study of the "standard grades" of American uplands and Sea Island cotton. Outline lectures on printed sheets will be used as a basis for instruction in this course and students will be marked largely by their work in actual grading. Offered to special students. Three hours per week. Second term. No text-book required. Note books required.

3. **Cotton Industries.** General course in cotton industries including the above courses, together with a course in the marketing and handling of cotton from the commercial standpoint. A study of varieties and variety tests, and selection for improving cotton. Offered to special students who wish to take a short course in the department of cotton industry. Three hours per week during entire year. Bulletins and other publications referred to during course.

4. **The Cotton Industry.** This course consists of studies in the development of the American cotton industry. Consideration will be given to the botanical relations of cotton fiber, the effect of ginning and baling, and final uses of the fiber for manufactured products. General reference will be made to the chemistry of the fiber. Text: M. B. Hammond's Cotton Industry. Many references will be cited. Three periods, first and second terms. Two lectures and one laboratory period. Juniors who elect cotton industry and general Senior course.

5. **Plant Breeding.** A general course in the principles of plant breeding, with special reference to technique in cotton breeding.

The course will consist partly of lectures and partly of field experiments. Text: Bailey's Plant Breeding, supplemented by numerous references. Three hours, third term. Juniors. Seniors, general course.

6. **Experiment Station Work.** Designed to give a review of experiment stations, their history and influence, a study of the agricultural societies in the United States, and their relation to the advance of agriculture. Some consideration will be given to the land grant colleges. Students who take this course will be required to do a considerable amount of seminar work. Three hours, first term. Seniors.

7. **Research.** Advanced courses will be offered in the principles of plant breeding, in which opportunity will be given for the study of the cytology of cotton, and the cytological aspects of cotton breeding. Three periods per week. One lecture and two laboratory periods during entire year. Texts: Punnett's Mendelism and De Vries Plant Breeding, with supplementary reading. Senior students in cotton industry.

This course counts for graduate work when properly supplemented. See announcement of the Graduate School.

For one-Year Students.

A general course made up from courses "1" and "2," cotton industry.

ANIMAL HUSBANDRY

MILTON P. JARNAGIN, Professor.
J. W. HART, Junior Professor.
J. L. BISHOP, Adjunct Professor.
H. B. CARPENTER, Instructor.

1. **Types and Breeds of Farm Animals.** This course will include a brief study of all the domesticated farm animals. Liberal use will be made of the lantern, in order to familiarize the student with the best specimens of all the leading breeds. Practical work will be given in the afternoon in the judging and handling of animals on the College farm. Two one-hour recitations and two two-hour laboratory periods. First term. **Freshman.**

2. **Horses, Mules and Beef Cattle.** In this course the origin, history and development of the various breeds of horses and beef cattle will be studied. The adaptation of the various breeds and types to different conditions of soil, climate and environment; a comparison of draft and light horses will be made, and especial emphasis laid on the adaptation of the different types of horses and mules to the various kinds of work. Two one-hour recitations each week. First term. Sophomore year.

3. **Dairy Cattle.** In this course the origin and utility of the several breeds of dairy and dual-purpose cattle will be studied. Their adaptation for the production of milk, butter, cheese, or for both milk and beef making will be carefully considered. A comparison of the profits to be derived from the various breeds under different conditions of farming will form an important part of the instruction provided. Two 1-hour recitations each week. Second term. Sophomore year.

4. **Sheep and Swine.** This course embraces a study of the history and development of the various breeds of lard and bacon hogs, both of English and American origin. Especial attention will be given in this course to types of hogs suited to grazing. The history of the various breeds of sheep will be taken up, and comparison of the several classes made. Special emphasis will be laid on growing and marketing hothouse lambs and on classifying wool. Two 1-hour recitations. Third term. Sophomore year.

5. **Stock Judging.** The students will receive training in the use of the score card for the various classes of live stock, and will study the standards of excellence as established by the several breed associations. In addition to this they will be given practical work in comparative judging and show-ring placing of the various breeding and market classes of horses, dairy and beef cattle; bacon and lard hogs; fine wool, medium wool, and long wool sheep. Two 2-hour laboratory periods each week. First, second and third term. Sophomore year.

6. **Swine Husbandry.** A specialized study of the underlying principles involved in the swine production will be taken up in this course. It will include class work covering the origin of the breeds of swine, and their adaptation to different sections of the country and market requirements. The principles of breeding, feeding and general herd management of hogs will be studied. The laboratory work will consist of practical work in judging, feeding, dipping and preparing for sale or the show ring. Practical work will be given in building hog houses, paddocks and other necessary equipment, and in planning and laying out yards and pastures for hogs. Two 1-hour recitations and two 2-hour laboratory periods, first term. Junior year.

7. **Principles of Dairying.** This course includes the theoretical and applied side of dairy and creamery practice. A detailed study will be made of the theory of milk secretion, formation and production; separation of cream by the shallow and deep setting systems, and by the use of centrifugal machines. The natural fermentations occurring in milk, their benefit and control; the manufacturing of butter; the testing of milk and its products of butter fat will be considered in their proper order.

8. **Principles of Breeding.** The principles of breeding include a consideration of selection, heredity, atavism, normal variation and fecundity. The methods of breeding studied include in-breeding, line-breeding, cross-breeding, and a review of the methods by which the best types of animal have been developed. Three 1-hour recitations. Senior year.

9. **Animal Nutrition.** In this course a study of the gross anatomy and physiology of the digestive system is included. The theoretical and practical side of compounding balanced rations for maintenance, milk and butter production, fattening and growth are fully explained. Three recitations per week. Senior year.

10. **Advanced Work in Animal Nutrition.** This course is provided for advanced students in Animal Husbandry. The results of feeding tests at the various experiment stations and agricultural colleges in this and other countries will be reviewed. Three 1-hour recitations per week. First term. Senior year.

11. **Feeding Problems.** Qualified students will be allowed to assist in conducting feeding tests, keeping records and summarizing results of experimental feeding conducted by the Department of Animal Husbandry. They will also be expected to make analyses of the various feeding stuffs used and to determine the fertilizing value of the excreta obtained from various classes of farm animals. Three 1-hour recitations per week. Second term.

12. **Economics of Animal Production.** In this course the various types and breeds of live stock will be considered in their relation to the utilization of various farm crops; relation to the productiveness of the soil and the creation of wealth in general. Three 1-hour recitations per week. Third term.

13. **Research Work in Animal Husbandry.** Qualified students will be allowed to carry on investigations in Animal Husbandry under the approval and directions of the professor in charge of the department. Three hours. Senior.

POULTRY HUSBANDRY

L. L. JONES, Instructor in Charge.

Farm Poultry Management. A study of breeds best suited to farm conditions; farm poultry house construction; hatching and rearing chicks; feeding for egg and meat production and sanitary handling and marketing of poultry products. Two 1-hour recitations and two 2-hour laboratory periods. Third term. Juniors.

Poultry Breeding. Advanced study of laws of poultry breeding, comparison of various poultry "systems," and a study of poultry diseases. Practice work given in judging, mating, incubator management, brooding and feeding. Three 2-hour laboratory periods. Third term. Elective for Seniors.

HORTICULTURE

T. H. McHATTON, Professor.
J. W. FIROR, Adjunct Professor.
C. M. KIGER, Tutor.

1. **Elements of Horticulture: Fruit Growing.** A general study of location, site, frost, planting, varieties, orchard tillage and management. Three lectures per week. Required of Freshmen in Fall Term.

2. **Pruning and Propagation.** A course in grafting, budding and other methods of propagation; also a study of the principles of pruning with its practice and effect. A few periods will be devoted to a study of varieties both for the orchard and truck garden. Laboratory course of three periods per week. Required of Freshmen in Winter Term.

3. **Elements of Horticulture: Truck Gardening.** A general study of the main truck crops as to planting, tillage and handling, with the addition of a study of hot-beds and their management. Three laboratory periods per week. Required of Freshmen in Spring term.

4. **Small Fruits.** A study of the various small fruits of interest to the horticulturist. Three lectures a week for six weeks. Book: "Bush-Fruits," by Card. **Fruit Harvesting, Storing and Marketing.** Three lectures a week for six weeks. Book: "Fruit Harvesting, Storing, Marketing," by Waugh. Required of Juniors electing Horticulture in the Fall term.

5. **Pomology and Garden Seeds.** A course in the testing of seeds and a study of the several species of fruit with their pomological classification. Book: "Systematic Pomology," Waugh, to be supplemented by lectures. A laboratory course of three periods per week, to be carried with course "4." Required of Juniors electing Horticulture in the Fall term.

6. **Greenhouse Management and Floriculture.** A study of the various flower crops, forcing crops and management of a greenhouse. Reference books: "Greenhouse Management," Taft; "The Forcing Book," Bailey, and "Practical Floriculture," Peter Henderson. Three lectures per week. Required of Juniors electing Horticulture in the Winter term.

7. **Greenhouse Construction.** A study of the different types of greenhouses and the heating, construction, etc., of the same. In connection with this course, trips to florists and nurseries will be taken to study the plants and greenhouses. A ground plan, end elevation, bill of material and description of heating plant used in a green house will be required of the student at the end of this course. Reference book: "Greenhouse Construction," Taft. A labora-

tory course of three periods per week. Required of Juniors electing Horticulture in the Winter term.

8. **Spraying.** A study of the history, chemistry and time of application of the various spray compounds. Three lectures per week. Required of Juniors electing Horticulture in the Spring term.

9. **Spraying Laboratory.** A course to be given with course "8." Practice in the making and application of different spray mixtures, accompanied by a study of nozzles and machinery. Three laboratory periods per week. Required of Juniors electing Horticulture in the Spring term.

10. **Landscape Gardening.** A study of the various schools of Landscape Architecture and also of the plants used in producing the various effects. A problem in Landscape Gardening will be given to each student, and a drawing showing the solution required. Three lectures and three laboratory periods per week. Required of Seniors electing Horticulture in the Fall term.

11. **Literature of Horticulture.** A course in the general history of Horticulture, with a study of the different reference books and papers. Three lectures per week. Required of Seniors electing Horticulture in the Winter term.

12. **Thesis.** The student is here asked to select some problem in one of the divisions of Horticulture, and will be allowed to find the solution in his own way. Time is given for consulting with the instructor so that his help may be obtained from time to time. At the end of the course a thesis stating the problem, the methods followed, and the results obtained will be required of the student. Three lecture hours and three laboratory periods per week. Required of Seniors electing Horticulture in the Spring term.

13. **Economic Entomology.** A course in practical entomology designed especially for use upon the farm. Special attention will be paid to the identification of insects and a collection will be required of the student at the end of the work. Book: "Manual for the Study of Insects," Comstock. Three hours per week. Required of all Juniors in the College of Agriculture for the last half of the Winter term, and all of the Spring term.

14. **Graduate Courses.** For graduate courses numbers "1," "2" and "3" see announcement of the Graduate School.

FARM MECHANICS

LEROY C. HART, Professor.
W. R. WILSON, Student Instructor.
L. G. PROCTOR, Student Instructor.
E. RAGSDALE, Student Instructor.

Shop Work. *a.* **Wood Work.** This course is designed for the instruction of the student in the use, care and sharpening of all wood working tools. A carefully planned series of exercises are offered. These exercises bring into use all tools that will be helpful to the student in after life. An advanced course in wood work planned for students having had the preliminary work, will be given. This course will consist of the design and building of furniture and other articles for the home. Required of Freshmen.

b. **Forge Work.** This work is designed to familiarize the student with the building and care of coal fires, the manufacture of iron and steel, and to familiarize him with the working and handling of iron and steel. Tool-making and tempering will be given. Required of Freshmen.

2. **Drawing.** Sufficient time will be devoted to free-hand drawing to enable the student to execute readily the necessary drawings in the various laboratory courses. Instrumental drawing will then be taken up so that the student may become familiar with the use of the instruments and be able to execute rapidly and neatly any drawing of this kind that will be required. Freshman year.

a. **Forest Drawing.** Special drill in drawing topographical maps, using all topographic signs employed in the United States topographic surveys. This course for Forestry students, but may be elected by advanced students.

3. **Farm Machinery Judging.** A study will be made of the construction and use of the various farm machines, such as are used for preparing, planting, cultivating, harvesting, storing and for home and miscellaneous machinery. Each group will be taken up separately, studied and judged. Required of Freshmen.

a. **Dynamite.** As dynamite has come to be of considerable importance in agriculture, a short review of its manufacture and use will be given in connection with Farm Mechanics "3."

4. **Farm Motors.** Considerable time will be given to study and operation of the gasoline engine, the steam engine and the electric motor. This course is taken up in connection with Farm Mechanics "3." Required of Freshmen.

5. **Farm Surveying.** This work will consist of the study and the use of farm levels, compass and transit for terracing, leveling and the survey of farm lands, and also their use in road building. Each student will be required to make a thorough map of a plot of ground and compute its area. The use of these instruments in tile drainage will be taken up and a survey and map will be made of a plot of ground needing drainage. Required of Freshmen.

a. **Forest Surveying.** An advanced course is offered in the use of the compass, level, plane table and transit, with special attention to the different uses of these instruments in topographic and reconnoissance work. The work will consist of a hasty survey of a plot of ground. Then a more careful survey will be made as a check upon the first to illustrate the difference in accuracy. This will enable the student to determine the method to be used on all future work. Work required in the Sophomore year for all Forest students, but may be elected by other students who have had Farm Mechanics "5," or its equivalent.

b. **Saw Mill Construction.** In view of the scarcity of proper heavy timber for construction, a course will be given dealing with heavy framing. This course will deal with the framing of saw mill buildings and other structures using heavy timbers. Forest students. Sophomore year.

6. **Fencing.** This will include a study of the strength and adaptability of various materials for fence construction. The principles of gate construction, such as bracing at the corners and at sufficient points according to the condition of the ground. Junior year.

7. **Farm Building.** This course consists of the study and design of farm buildings, starting with the simplest and gradually working up to the most complicated. Plans are drawn and from these, the bill of material and an estimate of the cost of the completed structure are made. Special attention will be given to farm convenience and sanitation. Considerable time will be spent in studying problems of lighting, heating, water supply and sewerage disposal for the farm home. Farm Mechanics "2," or its equivalent, are prerequisite to this course. Junior year. Second term.

a. **Saw Mill Machinery.** This course consists of a study of saw mill machinery of both portable and stationary mills, with all necessary machinery for the complete handling of the lumber from the log to the dry kiln; donkey engines, skidders, logging locomotives and logging cars. Required of Forest students, Junior year.

b. **Wood Physics.** A study of the strength of wood under different conditions and shapes, also the physical effect of moisture, heat and preservatives upon its strength will be taken up. Required of forest students, Junior year.

c. **Wood Preservatives.** The structural and physical properties of wood in relation to durability; the primary cause of decay; factors governing the lasting powers of different species; the preservation of woods by the application of paints and oils to the surface; the impregnation with creosote and other wood preservatives; the commercial method of impregnation; description of preserving plants and the fire proofing of timber. Required of Forest students, Junior year.

8. **Concrete Construction.** A study will be made of the principles of concrete construction, also the material, forms, mixing and placing and tamping. Their application to farm conditions and the various uses to which concrete has been put in late years will be pointed out. Special attention will be given to its use for residences

and barns. The construction of fence posts from concrete will be taken up. Optional for Seniors. Farm Mechanics "2," "6" and "7" prerequisite, or their equivalent.

a. **Concrete Testing.** An advanced course in the testing of cements and concretes under different conditions and shapes will be given. Optional for Seniors.

b. **Concrete Engineering.** A course designed to show the applications of concrete to forest engineering. The method of using natural aggregates will be studied. Forest students, Senior year.

9. **Road Building.** A study will be made of the various types of machinery used in road construction. Practice work will be given in locating roads at the most desirable grades with special attention to drainage. Considerable time will be devoted to road material, and in making tests of the various kinds. Optional for Seniors. Farm Mechanics "5," prerequisite to this course.

a. **Forest Roads.** This consists of a special study of earth roads and tramways in connection with their use in lumbering. Required of Forest students, Senior year.

Note.—Number "8" and number "9" will constitute half a year's work.

VETERINARY SCIENCE

W. M. BURSON, Professor.
H. H. ROTHE, Instructor.

1. Consists of lectures and demonstrations covering the anatomy and physiology of the animals of the farm. Special attention is given to the anatomy of the horse and cow with variations occuring in other farm animals. Histology is taught by lectures and by examination of animal tissues under the microscope. Materia Medica is taught by lectures, examination of specimens of crude and prepared drugs and medicines. First, second and third terms. Two hours per week. Sophomore year.

2. Consists of laboratory work in the above subjects. First, second and third terms. One laboratory period per week. Sophomore year.

3. Consists of lectures on Pathology, Bacteriology, Parasitology, Theory and Practice, and Lameness. First, second and third terms. Two hours per week. Junior year. Courses "1" and "2" are prerequisites.

4. Consists of laboratory courses in Pathology and Bacteriology. First and second terms. One laboratory period per week. Junior year.

5. Consists of lectures in Theory and Practice, Therapeutics, Surgery, Dentistry, Obstetrics and Contagious Diseases. First,

second and third terms. Senior year. Two hours per week. Courses "1," "2," "3" and "4" prerequisite.

6. Consists of free clinics held during the school year at the Veterinary Hospital. Third term. Junior year. First, second and third terms. Senior year.

7. **Bacteriology.** This course is designed to give the student in agriculture general information concerning various important forms of germ life. Lectures and laboratory work constitute the course. The various classes of bacteria are studied, special attention being paid to soil bacteria, saprophytes and those concerned in plant and animal diseases. Laboratory work consists of study of cultures and specimens under the microscope.

Two lectures and one laboratory period per week, first half year. Required of Juniors. Text: "General Bacteriology," Jordan. **Dr. Rothe.**

AGRICULTURAL CHEMISTRY

W. A. WORSHAM, Jr., Professor.
L. M. CARTER, Junior Professor of Soil Chemistry.
D. B. LONG, Professor in Charge Soil Chemistry.
R. S. HOLLINGSHEAD, Adjunct Professor.

1. **Organic Chemistry.** This course consists of the study of the classification and relation of the carbon compounds, and the preparation of the simpler and more important ones.

Stress will be laid on those compounds relating most directly to agriculture, such as the organic compounds in the soil, feeds, fertilizers and organic food adulterants.

Students taking this course must have had elementary Chemistry "1," or Inorganic Chemistry "2," including work in laboratory. Haskins & Macleod Organic Chemistry will be used as a basis of this work. Three hours of lectures and recitations and one laboratory period during first and second terms of Sophomore year.

2. **Qualitative Analysis.** In this course a study will be made of the characteristic properties and the reactions of the common metals and the acid radicals, and the general principles underlying qualitative analysis. By systematic work with known substances and then "unknowns" the student will be able to familiarize himself with the processes employed in qualitative analysis. This course is designed to enable the student to know the composition of all ordinary substances, particularly those that are of most importance in agriculture. Text: Dennis and Whittelsy "Qualitative Chemical Analysis;" special problems outlined by the instructor.

Two hours of lectures and recitations, and two laboratory periods during third term of Sophomore year, and three hours of lectures and recitations and six laboratory periods during first term of Junior year.

2*a*. **Qualitative Analysis.** Course adapted to needs of students in Forestry.

2*b*. Same as Course "2," except students not specializing in Chemistry take two hours of lectures and recitations and two laboratory periods during first term of Junior year. Required of students taking General Agriculture, Agronomy and Animal Husbandry.

3. **Quantitative Analysis.** The object of this course is to prepare the student for special work in agricultural chemistry as well as to teach the method of quantitative analysis.

The methods of both gravimetric and volumetric analysis will be treated in lectures and the practice carried out in the laboratory. Substances of known percentage composition will first be analyzed and then substances of unknown composition, including the simpler agricultural products. Texts: "Elementary Quantitative Agricultural Chemistry Analysis," Lincoln and Walton. Reference books: Quantitative Analysis, by Treadwell, Olsen and Fresenius.

3*a*. **Quantitative Analysis.** Course adapted to needs of students in Forestry. Gums and resins will be given special attention.

3*b*. Same as Course "3," except that students not specializing in Chemistry, have two hours of lectures and recitations and two laboratory periods. Required of students taking General Agriculture, Agronomy and Animal Husbandry.

4. **Advanced Quantitative Analysis.** The basis of the work in this course will be the study of the methods employed in soil investigations, the analysis of soils, fertilizers, feeds, waters, etc. Some latitude will be allowed the student as to the substances to be analyzed. Students taking this course must have had Agricultural Chemistry "3." No text-books required. Work for laboratory will be outlined and standard references given.

Three hours of lectures and recitations and six laboratory periods for three terms during Senior year.

4*b*. Same as Course "4," except that students not specializing in Chemistry have two hours of lectures and recitations and two laboratory periods. Required of students taking General Agriculture, Agronomy and Animal Husbandry.

Fees. No laboratory fees are charged for any of the courses offered in this department.

A deposit of $5.00 will be required for each laboratory course to cover breakage of apparatus. If any of this amount is left it will be returned to the student at the end of the year.

FORESTRY

ALFRED AKERMAN, Professor.
BONNELL H. STONE, Student Assistant.

Work of the School of Forestry.

The school was created in 1905; and work was begun with the academic year 1906-1907. Several lines of work have been undertaken: (1) Instruction in Forest Economics, to bring out the importance of our forests to the state and to the nation. (2) Elementary instruction in forestry, to familiarize the agricultural students with the management of farm woodlots and the execution of forest working plans. (3) Instruction in professional forestry, for those who intend to go into the lumber business, or to follow forest engineering as a profession. (4) Popular education in forestry throughout the state. (5) Coöperation with the owners of woodlands.

The work along the first line is embodied in course "1"; along the second line courses "2" and "3"; along the third line in courses "4," "5," "6," "7," "8" and "9"; along the fourth line in publications and in lectures before schools, farmers' institutes, lumbermen's associations, and other interested organizations; along the fifth line in the coöperative agreement which the College of Agriculture makes with woodland owners.

Description of Courses.

1. **Forest Policy.** A study of the public's interest in forests. The development of the forest policies of Germany, France, Switzerland, Great Britain, the United States and the several states. Instruction by lecture. Three hours. **Required of Seniors in Forestry.**

2. **Farm Forestry.** A study of forestry as applied to farm woodlands. The course is designed to give a working knowledge of how to secure a stand of timber, how to thin, protect and harvest the forest crop. Text: Akerman's "Farm Forestry." Two 1-hour recitations and one 2-hour practice period, third term. **Required of those taking the one-year course in Agriculture.**

3. **Farm Forestry, Longer Course.** Similar to course "2," but adapted to more advanced students. Two 1-hour lectures and one 2-hour practice period, second half year. **Optional with Seniors in Agriculture.**

4. **Dendrology.** This course comprises a botanic and economic study of forest trees. Identification of species in the woods in summer and winter habit is given special attention. Instruction is given by lectures, laboratory work and excursions. Reference work: Sargent's "Manual of the Trees of North America." Three hours, Sophomore year. **Required of Sophomores in Forestry.**

5. **Silviculture.** A study of forest stands from their founding to maturity, including artificial and natural reproduction, tending the stand, and silvical notes on the important species. Instruction by lecture, excursion and practice. Three hours, Junior year; six hours first term of Senior year. **Required of Juniors and Seniors in Forestry.**

6. **Forest Protection.** A study of the injury to the forest from trespass, fire, storms, insects, fungi and grazing, and of protective measures. Instruction by lecture, excursion and practice. Six hours, third term. **Required of Seniors in Forestry.**

7. **Forest Mensuration.** Computation of contents of logs, standing trees and forest stands; studies in diameter, height and volume increment; the use of instruments of mensuration; occular estimation of timber; log scales and their use. Instruction by text, supplemented by lectures and practice in the woods. Text: Graves' "Forest Mensuration," and Cary's "Manual." Six hours first term, Senior year. **Required of Seniors in Forestry.**

8. **Forest Management.** Forest valuation, financial returns from forest property; principles of forest working plans; construction of a forest working plan for a given tract. Instruction by lecture, with practice in the woods. Senior year, six hours second and third terms. **Required of Seniors in Forestry.**

9. **Lumbering and Utilization.** A study of the lumber industry and the uses of wood; the methods employed by lumbermen, and their improvement; felling, transportation and manufacture. An essay on some branch of the lumber industry is required. Instruction by lectures, supplemented by reading and investigation. Six hours, second term, Senior year. **Required of Seniors in Forestry.**

Summer Terms.

Candidates for degree are required to live for two months each summer between the Sophomore and Junior, and Junior and Senior years at a lumber camp, saw mill, or turpentine distillery, to keep a diary of each day's work, to make a herbarium of the forest flora of the locality and prepare a thesis on the operations being carried on. It is preferred that students secure some employment connected with the operations.

Coöperation with Lumbermen.

The College furnishes an expert to examine woodlands and prepare suggestions as to their management. Those who desire advice in the management of woodlands or in planting waste lands should make application on blanks which are sent on request.

MATHEMATICS.

C. M. SNELLING, Professor.
R. P. STEPHENS, Associate Professor.
R. S. POND, Adjunct Professor.
D. R. CUMMING, Tutor.

1. **Trigonometry.** A course in Plane and Spherical Trigonometry. Three hours per week for the first two terms. Texts: Murray's. **Professors Snelling, Stephens** and **Pond,** and **Mr. Cumming.**

2. **Graphical Algebra.** This will include a study of coördinates, the plotting of curves, and the derivation of the equations of the straight line and the circle. Three hours per week for the third term. **Professors Snelling, Stephens,** and **Pond,** and **Mr. Cumming.**

3. **Analysis.** The work of Course 2 will be continued by the study of the equations of the conics and by an introduction to the Calculus. Three hours per week for the first half year. Text: Smith and Granville's. **Professors Stephens,** and **Pond,** and **Mr. Cumming.**

[Note: In 1912-13, Courses 2, 3 were combined into one course and given as Course 3*a*.]

4. **Advanced Algebra.** The following topics will be treated: mathematical induction, binomial theorem, complex numbers, determinants, theory of equations, partial fractions, series, and logarithms. Three hours per week for the second half year. **Professors Stephens** and **Pond** and **Mr. Cumming.**

CIVIL ENGINEERING.

C. M. STRAHAN, Professor.
E. L. GRIGGS, Associate Professor.
J. C. KOCH, Adjunct Professor.
(Student Assistants: R. T. Goodwyn and C. Pope).

Civil Engineering Courses.

A-1. **Elementary Surveying.** A course covering the use, care, and adjustment of surveying instruments, methods of surveying by chain alone, by compass, and by transit; the methods of platting and computing areas and volumes; the variation of the magnetic needle; problems in parting off and dividing lands; the use of the Y level and precise leveling; plane table and stadia surveying, and the use of the solar transit. Three hours per week. Text: Breed and Hosmer's Surveying. **Professor Griggs.**

B-1. **Materials of Construction.** A course of lectures and laboratory work covering the occurrence, preparation, and manufacture of the important structural materials, to-wit: lumber, its seasoning, inspection and preservative treatment; stone, natural and artificial, including brick, terra cotta, cements, concrete blocks, etc.; the metals, including cast iron, wrought iron, steel, copper, tin, lead, zinc, aluminum and alloys as used by engineers; uniting materials, covering limes, mortars, cements, bituminous binders, joinery, riveting, etc. First and second terms. The third term is given to Foundations and Masonry structures, the course being based on Baker's Masonry Construction. Three hours per week. **Professor Strahan.**

B-2. **Railroad Engineering.** A course covering reconnoissance, preliminary and location surveys, curves, spirals, switches, etc., cross-sectioning, computations and estimates, railroad economics and the various other problems involved in the complete engineering of railways. Three hours per week. Text: Webb's Railroad Construction. Lectures. **Professor Strahan.**

B-3. **Highway Engineering.** A course of lectures, laboratory and field problems covering the surveys, location, drainage, grading and surfacing of public highways and city streets. The preparation of maps, profiles and estimates. Paving methods and specifications. Road finances, equipment and labor. Three hours per week. **Professor Koch.**

PHYSICS.

L. L. HENDREN, Professor.
E. T. MILLER, Instructor.
GRADY PADGETT, Fellow.

The following courses are offered for Agricultural students. For other courses see the A. and M. College announcements.

1. **Elementary Physics.** In this course especial emphasis is laid on the application of the principles of Physics to practical life. Text-book: Mann and Twiss, Physics; with special laboratory notes. Two hours per week recitation work and three hours per week laboratory work. Required of all Sophomore B. S. Agricultural students and Freshman B. S. Forestry students who have not offered one unit of Physics for entrance.

2. **Elementary Physics.** A course in general Physics similar to but somewhat more advanced than Physics "1," and requiring as a prerequisite one unit of Physics work in the high school. Three hours per week recitation and two hours per week laboratory work. Required of all Sophomore B. S. Agricultural and Freshman B. S. Forestry students who have received credit for one unit entrance work in Physics.

3. **Physical Measurements.** This course is Offered as an extra course for students taking Physics "1" or "2" who desire to do more individual laboratory work than is required in the regular course. Two hours per week in the laboratory.

CHEMISTRY.

H. C. WHITE, Professor.
H. V. BLACK, Associate Professor.
C. A. WELLS, Instructor.

The following courses are offered:

1. **Elementary Chemistry.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, "Outlines of Chemistry."

2. **Inorganic Chemistry; College Course.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text: Kahlenberg, "Outlines of Chemistry."

BIOLOGY.

JOHN P. CAMPBELL, Professor.
PAUL L. HUDSON, Fellow.

In this school, the following courses are offered for the coming year:

3. **Invertebrate Zoölogy.** This course is based upon the laboratory study of a series of selected types representing all of the leading invertebrate phyla of the animal kingdom. Arthropods are studied in the first term; Protozoa, Porifera, Coelenterates and some of the smaller phyla in the second; while Annulata, Echinoderms and Mollusca take up the third. This course is intended to give students a broad outlook on the animal kingdom as a whole, and to this end many theoretical questions are taken up in connection with those animals which best serve to illustrate them. Three hours weekly with laboratory work additional.

4. **Vertebrate Zoölogy.** The methods in this course are the same is in course "3," The different classes of Vertebrates are studied by means of selected types, but this is supplemented by extended reading, museum work, and lectures profusely illustrated with lantern slides. Three hours weekly with additional laboratory work during first and second terms.

5. **Comparative Osteology.** The comparative structure of the skeletons in the different vertebrate classes is taken up in this course. Special stress is laid upon the broader features of theoretical importance, but sufficient detail will be brought out to make this course valuable to any one who may have occasion to make actual use of its subject matter.

6. **Comparative Anatomy of Vertebrates.** In this course, attention is paid to the broader side of Anatomy, including Embryology and Histology. All the organs in the body are studied comparatively and attention is given to the theoretical questions growing out of this line of study. Based on Kingsley's "Comparative Anatomy of Vertebrates." Three hours weekly with extra laboratory work.

SCHOOL OF BOTANY.

J. M. READE, Professor.
PAUL TABOR, Student Assistant.

Course A. Plant Life. This is a brief course arranged for one-year students, and open to them only. It is designed at once to awaken observation and to furnish the vocabulary made use of in applied fields of study.

Course 1. Elementary Botany. This is the first of the regular courses open to matriculates. It is introductory in character dealing with a range of topics but not omitting what is fundamental in the structure and biological relations of familiar plants. Prerequisite to all other work in the school. Two lectures and two laboratory periods a week through the year.

Other courses, based on "1" and dealing with structure, development, physiology, ecology or with special groups such as the bacteria or fungi or with special topics such as those of plant disease and genetics, are described in the University announcement.

RHETORIC AND ENGLISH LITERATURE.

R. E. PARK, Professor.
S. V. SANFORD, Junior Professor.
S. M. SALYER, Instructor.

1. **Composition and Rhetoric.** Detailed study and practice in construction and kind of composition. This course will involve continual practice in writing and some work in rhetorical analysis. Lectures, themes, daily exercises. **Required of Freshmen.** Three hours a week. **Professor Sanford** and **Mr. Salyer.**

2. **English and American Literature.** The principles of literary criticism and the practical applications of these principles to masterpieces of authors studied with reference to (1) elements of literature, (2) species of literature, (3) historical development. The object of this course will be to give to the student a general view of the history and development of literature, with more detailed knowledge of certain periods. Throughout the course much attention will be devoted to the writing of essays as a means of training the student to appreciate and to express his appreciation of the literature studied. **Required of Sophomores.** Three hours a week. **Professor Park** and **Mr. Salyer.**

ROMANCE LANGUAGES.

J. LUSTRAT, Professor.
W. T. TURK, Instructor.

French.

1. **French 1** is a course for beginners who are conditioned in French and wish to substitute both French and German for Greek.

The course consists of careful drill in pronunciation, the rudiments of grammar, the study of regular and irregular verbs, the inflection and use of personal pronouns, the rudiments of syntax, dictation, easy exercises of translation from English into French, conversation and the reading of about 275 duodecimo pages of easy prose. Three hours per week.

2. **French 2** is the continuation of course "1," for students who are conditioned in French and wish to substitute both French and German for Greek. It will comprise the reading of about 400 pages of easy modern prose, constant practice in translation into French easy English prose, dictation, short drill in grammar and syntax, full study of all irregular verbs and conversation. Three hours per week.

HISTORY AND POLITICAL SCIENCE.

J. H. T. McPHERSON, Professor.
W. O. PAYNE, Associate Professor.
R. P. BROOKS, Associate Professor.

1. **Greek and Roman History,** with a brief review of the early oriental nations and continued through the period of mediaeval history ending with the Treaty of Verdun. **Optional for Freshmen** who do not offer Ancient History for entrance. Three hours per week throughout the year. Text: Myers's "Ancient History." **Associate Professor Payne.**

2. **European History.** In this course one or more characteristic periods of European history are studied intensively. The periods considered and texts used are changed from year to year. During the present session the eighteenth and nineteenth centuries were studied, with Robinson and Beard's ""The Development of Modern Europe," volumes I and II, as text. **Required of Freshmen,** except (1) those admitted to History "1," and (2) Freshmen in the B. S. Agriculture course. Three hours weekly throughout the year. Four sections. **Professor McPherson, Associate Professors Payne** and **Brooks.**

3. **History of Georgia.** An introductory lecture course of one hour per week throughout the year, covering the more important aspects of the history of the State from colonial times to the present. Collateral reading and map work required. **Required of Freshmen. Associate Professor Brooks.**

4. **Political and Constitutional History of England.** Especial attention is paid to the development of Parliament, the Cabinet and the phases of local government—township, parish, manor, hundred, and county—with the object of laying a thorough foundation for the subsequent study of American institutions. The progress of

contemporary European events is kept constantly in view. Three hours per week throughout the year. Text: Gardiner's "History of England." Four sections. **Associate Professors Payne and Brooks.**

German.

1. **German 1** is a course for beginners who are conditioned in German and wish to substitute both German and French for Greek in the A. B. degree. For 1912-13 this course comprised an oral introduction of four months, following which, grammar and reader, with daily oral and written exercises, completed the year's work. Three hours per week. **Professor Morris and Adjunct Professor DuBose.**

2. **German 2** continues the work of German "1," and completes the requirement for entrance given on page "23." The course consists of translation of simple texts and exercises in both speaking and writing German. Three hours per week. **Professor Morris** and **Adjunct Professor DuBose.**

SCHOOL OF EDUCATION.

T. J. WOOFTER, Dean.
L. R. GEISSLER, Professor Psychology.

The following courses are offered in the College of Agriculture as general electives:

Psychology.

1. **Elementary Psychology.** An introductory course covering the essentials of general psychology. Three hours a week first half year. **Dr. L. R. Geissler.**

2. **Educational Psychology.** A study of mental development through the different stages of growth, the infant, the child, and the adolescent, and of instinct, perception, memory, imagination, thought processes, emotions, will, character, etc. Three hours a week, second half year. **Dr. L. R. Geissler.**

5. **Principles of Psychology.** A course taking up in lectures, recitations and experiments the various mental activities. The structural, functional and general aspects of mind will be considered and the relations of dreams, hypnosis, neurosis, criminal action, animal behavior, etc., to the normal mind will be discussed. This may be taken as a beginning course but not at the same time as Course "1." Three hours a week throughout the year with laboratory work additional. **Dr. L. R. Geissler.**

6. **Experimental Psychology.** This will be an advanced course of laboratory experiments. Laboratory work and conferences the equivalent of three hours a week credit for the year. Prerequisite, Course "5" or Course "1." **Dr. L. R. Geissler.**

Philosophy.

3. **Logic.** A study of both deductive and inductive logic; practice in the use of the syllogism, inductive methods, and criticism of fallacies. Three hours a week first half year. **Professor Woofter or Professor ———.**

4. **Ethics.** This will be a study of human conduct through its biological, psychological and sociological bases. The moral aspects of present-day problems of society, democracy and human life generally will be considered. Three hours a week second half year. **Professor Woofter or Professor ———.**

8. **History of Philosophy.** A course tracing the movements of thought from the early Greek period to the present time and giving an introduction to the great thinkers of the world. Some special study in the modern field. Three hours a week throughout the year. This should be taken as a Senior elective. **Professor ———.**

Education.

1. **History and Principles of Education.**

(a) A study of the educational ideals and achievements of the great peoples of the world, tracing the development of modern educational ideals, principles and systems. Three hours a week first half year. **Professor Woofter.**

(b) A fuller study of special topics and educational classics bearing on modern principles and practices. Three hours a week second half year. **Professor Woofter.**

2. **Educational Psychology.** A study of mental development with especial attention to the adolescent period; also of such fields as instinct, memory, imagination, thought processes, emotions, will and character. Three hours a week second half year.

This course may be taken after Psychology "1" or "5." If Psychology "5" is taken, then this course may be taken with first half of Education "1" to make a full year's work. **Dr. L. R. Geissler.**

4. **Secondary Education.** The American High School, its development, organization, course of study, methods of teaching, and administration. A comparison with secondary schools in leading foreign countries. Three hours a week throughout the year. **Professor Stewart.**

5. **Educational Sociology.**

(a) **Elementary Sociology.** An introduction to the study of society and modern social problems. Social function of education.

Note. See Peabody School of Education for fuller outlines and other courses. All courses given in this School are open to students in the College of Agriculture.

(b) **Rural Sociology.** A study of rural conditions and a constructive program of betterment. Three hours a week first half year. **Professor ————.**

6. **Vocational Education.** Its development in various countries and its function in a democracy, with especial attention to **Agricultural Education.** Three hours a week second half year. **Professor** ————.

It is suggested that students preparing to teach should elect Psychology "1" and "2" and at least two courses from Education '11," "4" and "5" and "6."

GEOLOGY.

Vacant.*

1. **General Geology.** Three hours per week, second half-year. The course of instruction is at first a general one, embracing the study of the distinguishing properties of minerals and common rocks, the decay of rocks and the formation of soils. Following this is a more extended course of Structural, Dynamical and Historical Geography.

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*Temporarily in charge of the professor of Chemistry.

MILITARY SCIENCE AND TACTICS.

W. R. KENDRICK,

17th U. S. Infantry, Commandant of Cadets.

In accordance with the provisions of the Land Grant Act, military exercises are regularly held in this College, upon which the attendance is compulsory for members of the Freshman, Sophomore and Junior classes, and the students in the One-year Course in Agriculture, except when excused by the surgeon of the Corps of Cadets.

The uniform consists of a coat of standard Charlottesville gray cloth; winter trousers of same material, with stripe one inch wide; and blue cap. The uniform costs about $15.55. For spring use white duck trousers, jeans trousers and blue shirt, leggins and hat are required, costing about $4.50.

Practical instruction is given three hours each week, covering the following subjects: Infantry Drill Regulations; Field Service Regulations; Manual of Guard Duty; Firing Regulations for Small Arms; Artillery Drill Regulations, partial.

Theoretical instruction, two hours each week, for commissioned and non-commissioned officers, is given in the portions of the above subjects covered by the practical instruction, and is supplemented by lectures. **One hour each week of theoretical instruction is required of Freshmen.**

ONE YEAR COURSE

This course commences at the opening of the fall session and continues throughout the collegiate year. The purpose of this course is to provide suitable instruction for those who can only remain in college for one year. An effort has been made, therefore, to condense the work as much as possible, provide a correct scientific foundation and yet make the instruction of a very practical nature. An outline of the one-year course follows. The schedule indicates the number of hours required in each subject and the amount of time devoted to class-room and laboratory work. Notice that the laboratory instruction has been emphasized as this is considered the best way of demonstrating the value of applied science to the solution of the problems of the farmer. Students entering this course who are capable of carrying the Freshman Mathematics or English may be permitted to do so upon the approval of the President of the College.

ONE-YEAR COURSE.

First Term.

	Hours.	Lab. Periods.
English	3	--
Arithmetic	3	--
Cereals	2	--
Cereal Judging	--	1
Soils	3	--
Iron and Wood Work	--	3
Horticulture	3	1
Breeds and Breeding	3	2
Botany	3	--
Veterinary Medicine	3	--
	23	7

Second Term.

	Hours.	Lab. Periods.
English	3	--
Arithmetic	3	--
Cotton and Cotton By-Products	3	1
Cotton Grading (Cotton School)	--	--
Soil Fertility	3	--
Farm Machinery	--	1
Horticulture	3	1
Dairying	1	2
Feeds and Feeding	3	1
Farm Management	2	--
Veterinary Medicine	2	1
	23	7

Third Term.

English	3	--
Farm Accounts	3	--
Grass and Forage crops	3	1
Chemistry	3	--
Plumbing and Pipe Fitting	--	1
Horticulture	3	1
Farm Buildings	--	1
Practice Work Animal Husbandry	--	1
Surveying	3	1
Forestry	2	1
Veterinary Medicine	2	--
	22	7

AGRONOMY. (1-year course).

Cereals and Cereal Judging. The history, use and cultivation of the different cereals will be studied. Especial attention will be given to seed selection as influencing the yield of farm crops. A study of the various cereals, especially corn, will be made by use of the score card. First term. Three 1-hour recitations and one laboratory period.

Farm Management. An examination of the various business methods employed on different classes of farms is first undertaken. Special attention is given to systematizing the work and determining the effect of various rotations on the maintenance of fertility. A stereopticon is used to show how various kinds of farms should be arranged so as to conduct the business with the greatest economy.

Grass and Forage Crops. A study is made of the various grasses adapted to this state that can be utilized to the best advantage for pasturage and hay. The uses of the forage crops, especially the legumes, are given considerable attention. Methods of growing and preserving silage are considered at length, as this is undoubtedly the best form for preserving forage crops in the South.

Soils. A study of the physical properties of soil is made, and the effect of good and poor mechanical conditions on crop production is demonstrated. Methods of improving the physical conditions are studied. Special attention is given to the water-holding capacity of the soil, and the best methods of conserving soil moisture. First half year. Three 1-hour recitations.

Soil Fertility. The different fertilizing ingredients and their function in plant growth will be discussed. Methods of mixing fertilizers and determining the formulas best adapted to different soils will be studied. The effect of rotation of crops on soil fertility and the draft of the different crops on the soils will also receive attention. Second half-year. Three 1-hour recitations.

COTTON INDUSTRY. (1-year course).

Emphasis is laid on the importance of seed selection. A study of types of plants with special reference to their yielding capacity will be made, and the conditions affecting length, strength, uniformity, quality and quantity of fiber. Some attention will be given to combing and grading cotton, and all varieties will be studied in the seed in the laboratory. There will also be a complete set of grades of long staple and upland lint cotton in the laboratory for inspection and comparison, and students will be required to grade some cotton by the samples, after the basis of grading has been pointed out to them. Second term. Three 1-hour recitations.

ANIMAL HUSBANDRY. (1-year course).

Breeds and Breeding. A practical course will be given in the study of domesticated animals, and a consideration of the fundamental laws underlying their production. Three 1-hour recitations.

Dairying. In this course lectures will be given on the principles of modern dairying and on the manufacture of butter, cheese and other products. Practice work in the operation and repair of dairy machines will be required of all students. The use of the Babcock test and other apparatus for the detection of adulteration of milk will be fully explained. One lecture and two laboratory periods. Second term.

Feeds and Feeding. In this course a study of the various feeding stuffs will be taken up. The balancing of rations and their adaptation for maintenance, development of bone and muscle, production of milk and butter, and for maintaining and fattening farm animals will be discussed and explained. Three 1-hour recitations and one laboratory period. Third term.

Stock Judging. Scoring, judging and classifying the various classes of farm live stock will form an important part of this course. After the student has become proficient in the use of the score card, work will be given in comparative judging and show-ring placing. The standard of excellence as established by the several breeders' associations will also be given some attention. First term. Two laboratory periods.

HORTICULTURE. (1-year course).

Orchards. A study of orchards as to location, site, exposure, cultivation, fertilization, planting, pruning, spraying, thinning, harvesting and marketing. Book to be used, "Principles of Fruit Growing," by L. H. Bailey. Three 1-hour lectures and one laboratory period per week. First term.

Propagation and Pruning. A study of budding, grafting, and other methods of plant manipulation and propagation, with a course in the principles and practice of pruning. Three lectures and one laboratory period per week. Second term.

Small Fruit and Trucking. A course in the management of small fruit plantations and truck gardens, following much the same order as the orchard course. Particular attention will be given to the construction and management of hot beds as well as to the principal small fruit and vegetable crops of the section. Three lectures and one laboratory period per week. Third term.

FARM MECHANICS. (1-year course).

Wood Work. This will include the care and use of wood working tools. It will be made as practical as possible. The majority of the exercises will consist of the construction of articles that will be needed on the farm, such as gates, fences, wagon beds and other farm conveniences. First terms. Two laboratory periods. Alternates with forge work.

Forge Work. This course will include welding and shaping of iron and handling of steel. Considerable attention will be paid to the making and tempering of small hand tools. A student after taking this course, will be able to do all of the ordinary repairs of farm machines and other blacksmithing that will be necessary in farm work. First term. Two laboratory periods per week. Alternates with wood work.

Farm Machinery Judging. A study of the principles of construction and operation will be made. Considerable time will be given to studying the individual parts of the different farm machines. Considerable time will be devoted to motors, especially gasoline and steam engines. Third term. Two laboratory periods.

Farm Buildings and Fences. The strength and adaptability of the materials available for construction will first be determined. Principles of construction will be studied, and considerable time will be given to planning the different farm buildings with especial regard to convenience and sanitation. The use of concrete on the farm and principles of concrete construction will be demonstrated. Laboratory practice will constitute an important part of the work. One lecture and two laboratory periods per week.

Farm Engineering. Instruction will be given in the use of the instruments necessary in surveying farm lands and terracing. Considerable time will be given to the location of farm buildings, roads, terracing, leveling and tile drainage. One lecture and one laboratory period per week.

Plumbing and Pipe Fitting. A short course in plumbing and pipe fitting will be given in connection with farm buildings. It will consist of the location and planning of the water supply and drainage away from the home, and the proper laying out of a perfectly sanitary system of plumbing for all buildings. The proper assembling and selection of the material needed for a complete job, and the calking of all joints, etc., will be fully studied.

VETERINARY SCIENCE. (1-year course).

1. Consists of lectures in the anatomy and physiology of the horse, with brief notices of the variation occurring in the other farm animals. Lectures on Materia Medica cover the more commonly used drugs and medicines, paying particular attention to the action and dosage of the drugs. First term. Three hours per week.

2. Consists of lectures on Theory and Practice and Surgery; deals with the most common diseases of the horse and cow and the minor operations that are performed on these animals and the care of surgical and accidental wounds. Second term. Two hours per week.

3. Consists of free clinics held at the Veterinary Hospital. One hour per week. Second and third terms.

4. Consists of lectures on Obstetrics and Dentistry. Two hours per week. Third term.

AGRICULTURAL CHEMISTRY. (1-year course).

This course is planned to prepare the student for intelligent study of the chemistry of soils, fertilizer and foods. At first the elements and compounds most important to agriculture will be taken up. The composition of farm crops, and the application of chemistry to plant and animal life will be studied. Text: "Chemistry of the Farm," by Warrington. This course consists of three lectures during third term.

FORESTRY. (1-year course).

A study of forestry as applied to farm woodlands. How to secure a stand of timber, how to thin, to protect, and harvest the forest crop. Second half-year. Two 1-hour lectures and one 1-hour practice period.

THREE-MONTHS OR WINTER COURSE IN AGRICULTURE.

Short courses of instruction in agriculture and related subjects are offered for the benefit of those who are engaged or expect to engage in farming, and yet who are so situated that they cannot undertake a full college course of study. This course is given during the winter when work is least pressing and the time can best be spared. The course consists principally of the regular work provided during the winter term of the one-year course, with such additional elective subjects as the student finds he can conveniently carry upon consultation with the President of the College.

Those desiring to take this course can familiarize themselves with the nature and character of the work by referring to the schedule of the one-year course for the second term. Considerable extra work may be taken if desired. Certain subjects may also be dropped and others elected to meet the wishes of the student. Requirements for admission to this course and the cost have already been mentioned and need not be again detailed here. Those intending to take this course of instruction are urged to write to the College authorities some time in advance so that suitable arrangements can be made for them.

SHORT COURSES FOR FARMERS

In Cotton Industries, Cereal Production, Live Stock Farming and Horticulture. The popularity of the Cotton School conducted annually by the College of Agriculture and the desire for instruction on a wider range of subjects pertaining to an advanced agricultural practice made the readjustment of the work of the Cotton School advisable. While this course is retained and its character improved in many particulars, other courses have been added designed to meet the needs of Georgia farmers who desire to specialize in cereal production, animal industries and horticulture. Those attending the short courses for farmers next winter will therefore have an opportunity of specializing along four distinct lines, which will permit former students to return and continue their studies, and enable new students to specialize along the line of primary interest to them.

The Farmers' Short Courses are held in Agricultural Hall, one of the best academic buildings in the South, and admirably equipped in every respect for instruction in all phases of agricultural industries. The College of Agriculture has a staff of experts, and those attending will have the privilege of conferring with these men and acquiring as much information outside of the regular course as their time will permit. The courses are intensely practical, and according to the testimony of former students, have repaid them many times over for the expenditure of time and money required to take them. These courses afford the opportunity thousands of Georgia farmers have been looking for.

The object of these short courses is to present information at a minimum of cost and in a concrete form, so that the facts may be applied successfully in every-day work on the farm. Admission to this course is free, a registration fee of $1.00 being charged to cover incidental expenses. The cost to the student, therefore, consists of board while in Athens and railroad fare, of from $15.00 to $25.00.

The ages of those attending these courses range from 18 to 60 years. These courses are not intended for irresponsible boys, but for those who are actually engaged in farming, and the instruction has been so arranged as to provide the largest amount of useful information in the shortest possible time. The session for 1914 will open on January 5th, and continue for ten days. The work will be so arranged that those desiring to remain for more than ten days may do so.

COURSES IN COTTON INDUSTRIES. (Short course).

Ten Lectures on the Soil, including a discussion of its origin, character, composition and utility for crop production.

Ten Lectures on Fertilizers, including a discussion of the essential elements of plant food and methods of purchasing, mixing and applying these various constituents to the soil for the purpose of producing maximum crops at a minimum cost.

Five Lectures on Cotton Cultivation. These include methods of seed selection which may be adopted and successfully practiced by farmers for the improvement of the quality of the staple.

Five Lectures on Cotton Diseases. The principal diseases affecting cotton, the causes so far as known, and the best methods of combatting and eradicating them will be discussed.

Five Lectures on Cotton Insects. In these lectures the history, characteristics and the best methods of controlling the depredations of the various insects attacking the cotton plant, will be discussed.

Five Lectures on the Chemistry of Cotton By-Products. These lectures will deal with the preparation, history and commercial uses of such by-products as cotton seed oil, paper, cellulose, gun cotton, artificial silk and hair and viscose, which is used in making artificial leather and building material. Samples of the various by-products will be used for illustrative purposes.

Five Lectures on Machinery. The different forms of plows, cultivators and seeders which may be utilized so as to economize labor and increase the efficiency of soil cultivation will be considered.

Ten Demonstrations in Cotton Grading. In this course the student will have an opportunity to handle and grade ten or more samples of cotton each day just as the operation is performed on the warehouse floor. Cotton grading can be successfully taught and made the means of saving several millions of dollars annually to the farmers of Georgia.

Three Lectures on Cotton Marketing. These lectures will include a discussion of the business of receiving, handling and shipping cotton.

The necessity for instruction in cotton industries will be made apparent by the fact that there is a loss in the value of the staple as nature produces it and as placed upon the market, of between ten and twenty millions of dollars every year in Georgia. This loss is largely avoidable and will be reduced materially when the handling and grading of cotton is made a part of the knowledge of the farmers in all parts of the state.

COURSE IN CEREAL PRODUCTION. (Short course).

This course is broader than its name implies, and includes a consideration of seed selection and crop rotation—two matters of vital importance to the welfare of Georgia agriculture. The widespread interest in increasing the yield of corn and growing a greater variety of cereals constitutes the primary reason for offering this course. The department of agronomy has every facility for carrying on the work in the most effective manner. Experiments in corn breeding and cereals production have been conducted in the demonstration field for several years, and furnish an abundance of data of vital importance to the students specializing along these lines. The course is as follows:

Five Lectures on Insects Injurious to Grain. A study of the life history of the more injurious insects will be made with suggestions as to methods of control.

Ten Lectures on Seed Selection. All cereals may be greatly improved both as to yield and quality of grain through seed selection. Experience shows that the seed used in Georgia should be produced at home. The data obtained in the College demonstration field will be used as the basis of instruction.

Ten Lectures on Crop Rotation. Crop rotation is undoubtedly the solution for small acreage and higher production per acre, as well as a means of having more than one crop for market. Different systems of rotation will be studied, also the influence of the rotation on general farm work. Special attention will be given to cover crops and their use in the state.

Ten Demonstrations in Cereal Judging. Cereal judging will include a systematic study of varieties by the score card, by actual measurement and scales, as well as germination tests. Students taking the course in cereal production will also elect fertilizers, soils and farm machinery.

COURSE IN LIVE STOCK FARMING. (Short course).

Georgia farmers have more than fifty million dollars invested in live stock, and in spite of this fact, at least one-tenth of the value

SCHEDULE OF RECITATIONS--SHORT COURSE FOR FARMERS.

January 5th to 16th, Inclusive, 1914.

	Tuesday, Jan. 6th.	Wednesday, Jan. 7th.	Thursday, Jan. 8th.	Friday, Jan. 9th.	Saturday, Jan. 10th.	Monday, Jan. 12th.	Tuesday, Jan. 13th.	Wednesday, Jan. 14th.	Thursday, Jan. 15th.	Friday, Jan. 16th.
9:00 to 9:55	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers	Fertilizers
10:10 to 11:05	Soils	Soils	Soils	Soils	Soils	Soils	Soils	Soils	Soils	Soils
11:05 to 12:00	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Farm Machinery Diseases of Farm Animals	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain	Cotton by-products Diseases of Farm Animals Varieties of Fruit Insects Injurious to Grain
12:00 to 12:55 (1) (2) (3) (4)	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	The Cotton Plant Feeding Farm Animals Diseases of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection	Cultivation of Cotton Feeding Farm Animals Insect Enemies of Fruit Seed Selection
12:55 to 1:50 (1) (2) (3) (4)	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Diseases of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation	Insect Enemies of Cotton Breeds and Breeding Orchard Management Crop Rotation
3:10 to 5:00 (1) (2) (3) (4)	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging	Cotton Grading Stock Judging or Clinics Spraying and Pruning Cereal Judging

Registration Day is Monday, January 5th, 1914. Bear this date in mind.

of the cotton crop is put into renewing live stock industries which should be developed within the borders of the state. On this account, a ten-day course of instruction for farmers who desire to specialize in live stock farming has been arranged at the College. The course is as follows:

Ten Lectures on Feeds and Feeding. This course will review the courses of feeding stuffs available for the maintenance of live stock, special emphasis being laid on the value of cotton seed and its by-products, and all other materials produced in the state which can be utilized to good advantage in animal nutrition.

Ten Lectures on Breeds and Breeding. In this course the origin, history and development of the various breeds of horses, cattle, sheep and swine adapted to Georgia will be considered.

Ten Lectures on Diseases of Farm Animals. This course includes a review of the methods used to control and eradicate contagious diseases of live stock, including U. S. quarantine regulations concerning the transportation of animals affected with contagious diseases and disease-producing parasites; a consideration of some of the more common diseases and ailments of farm animals, together with means of prevention and methods of treatment.

Five Clinics will be held to demonstrate the method of administering Anti-Hog Cholera Serum and other biological products, and a demonstration of the method of examination of horses for soundness, together with a consideration of the seriousness of various blemishes and unsoundness from an economic standpoint.

Five Demonstrations in Stock Judging. For the student electing the live-stock course practical work will be given in the afternoons in scoring farm animals, as well as actual work in show-ring placing. Students taking the course in live stock farming will also elect fertilizers and soils.

COURSE IN HORTICULTURE. (Short course).

Many persons are intensely interested in securing more definite knowledge concerning orchard management. This is especially true since the wonderful possibilities of apple production in north Georgia have become more generally appreciated. To meet this public demand a specialized course in horticulture has been provided.

Five Lectures on Varieties of Fruit. In this course will be given a discussion of the varieties of apples, pears, peaches, etc., as recommended for commercial culture in the various sections of the state by the Horticultural Society.

Ten Lectures on Orchard Management. These will include discussions of site, location, choice of plants, planting, tillage, cover crops, fertilization, pruning, thinning, frost, spraying, picking, packing and selling.

Five Lectures on Diseases of Fruits. Brown Rot, Apple Scab, Pear Blight, and other diseases incident to the culture of the tree fruits in Georgia will be considered.

Five Lectures on Insects of Fruits. The Codling Moth, Plum Curculio, Peach Borer and other insects incident to the culture of tree fruits in this state will be discussed.

Ten Demontrations in Spraying and Pruning, consisting of practice in mixing and applying sprays, fighting frost, pruning trees, etc.

Students taking the course in horticulture will also elect fertilizers, soils and farm machinery. The schedule of recitations for these short courses is shown on another page and is self-explanatory.

WHY FARMERS SHOULD ATTEND THESE COURSES.

The boll weevil will reach the state perhaps this year, and it becomes imperative for the farmers of Georgia to understand the principles of plant and animal breeding, seed selection, more about crop rotation, fertilizers, and how to utilize lint cotton to the best advantages. The Farmers' Short Courses afford these opportunities at a minimum of cost to every white citizen of the state.

Those desiring further information should write for our special circular on the short courses.

ANNUAL MEETINGS OF FARMERS' ORGANIZATIONS

The Georgia Dairy and Live Stock Association, the Georgia State Horticultural Society, and the Georgia Breeders' Association held their annual meetings at the College, January 15, 16, 17, 1913. An attempt was made to reach and serve the interests of all class of citizens engaged in agriculture. The attendance was unusually large, and since those engaged in horticulture or dairying are often interested in both lines of farming, the joint meeting of the several associations presents many advantages to the members and saves both time and money. By meeting at the College, the several organizations are afforded an opportunity to study the progress made in agricultural science during the year and to confer with the experts in charge of the several departments. The student body is greatly benefited by the chance afforded for personal contact with practical men who are making a success of the lines of work in which they are engaged. Thus several important purposes are served through the arrangement of a joint conference of the organizations chiefly concerned in promoting the welfare of Georgia farmers. A determined effort will be made to increase the membership of all the organizations and make the meeting of 1914 the best which has ever been held. Plans have already been made to secure the services of several experts of national reputation to address the several organizations at the next annual meeting.

The advisability of holding such a general conference is shown by the fact that the fertility of our lands is decreasing, the depredation of insect pests and plant diseases becoming greater each year, and the purchase and use of fertilizers more necessary. How shall the farmer obtain the needed information with referenc to these matters save through some such clearing house for agricultural information as the State College of Agriculture affords? Education measures the success and progress of a nation. We have neglected agricultural education in America because of our marvelous natural resources. But nature has rebelled, and now we must inaugurate crop rotations and give greater attention to the development of our live stock industries. There is need, therefore, for the dissemination of definite information relating to farm life and work in order that our present agricultural supremacy as well as the prosperity of the farmer may be assured not only for the present but for the future.

The meeting for 1914 will be held January 20, 21, 22, as there is more leisure on the farm at this time than at any other season. Every farmer should take a holiday and accord the same privilege to his wife. That such gatherings are beneficial is shown by the fact that 1,000 farmers attend meetings of this kind in some of the states where the agricultural college has been established on a substantial basis. Our farmers will find it quite as beneficial to them to attend these gatherings as those living in other states. Since the cost will only include railroad fare and one dollar a day for board while in Athens, there can be no question as to the advantages which will accrue to the individual who attends these gatherings and learns about the new facts of agriculture which it is necessary for him to know in order to conduct his business along the most profitable lines.

EXTENSION TEACHING

It is the purpose of the College of Agriculture to aid all educational activities which are being carried on in the state. The fulfillment of this purpose is one of its greatest obligations to the State and every effort will be made to further the work of extension teaching. Two great ends are to be subserved by work of this character. First, the systematizing of the educational activities of the state and the raising of these to a higher level of efficiency. Second, the dissemination of useful knowledge which has accumulated in recent years, but is not as generally appreciated as it should be, and which cannot be brought to the attention of adults and those remotely situated from the College save through extension agencies. Recognizing the importance of this character of work, the General Assembly of Georgia during the annual session 1911 appropriated $40,000 to the State College of Agriculture to be used for extension teaching.

In accordance with this action of the legislature, the Board of Trustees has reorganized the work of the several departments constituting the College, along lines which permit of carrying on their proper share of extension work in the most efficient manner possible. There is a general extension office with a secretary in charge. Through this office the extension schools, educational trains, farmers' institutes, and miscellaneous meetings are largely organized and directed. Every member of the College staff gives some of his time and effort to extension activities.

The department of agronomy is laying down series of test plats on different type soils of the state to secure data concerning their principal defects, and what forms of fertilization and crop rotation are best adapted to build them up. This department maintains a twenty-acre field for the purpose of carrying on investigations relative to corn and cotton breeding, crop rotations, fertilizers and soil management. This information is invaluable to the people of the state and is distributed in bulletin form through the meetings held by the extension service.

The traveling field representatives of the department of agronomy are also engaged in advising the farmers relative to the improvement of certain strains of corn and cotton which are being developed through seed selection or hybridization.

The department of agricultural chemistry has undertaken a physical survey of several counties and is making analyses of all the type soils found therein. A close coöperation of necessity exists between the departments of agronomy and agricultural chemistry in this work, which is of the most fundamental character, since it means to ascertain the soil deficiencies and determine the methods by which these can be overcome. Several men are employed by this division.

The department of animal husbandry is carrying on work along several lines. First, it is endeavoring to coöperate with farmers in the purchase and dissemination of improved breeds of live stock so that breeding centers may be established in a number of communities. Secondly, an expert is advising dairy farmers as to the best types of barns and silos to erect, and supervising the feeding and management of a number of dairy herds as well. On the College farm more than 150 head of live stock are maintained for the purpose of securing data and information to be distributed in bulletin form to be used at extension schools and other meetings held throughout the state.

An instructor in poultry husbandry has charge of this special line of work, and is prepared to advise with all interested in this important industry.

The department of horticulture is carrying on extension work in connection with the peach, apple, pecan and trucking industries. Demonstrations on spraying, pruning and orchard heating and other frost fighting apparatus will be made during the year.

The department of farm mechanics is prepared to assist farmers in the preparation of plans for farm houses, barns and other outbuildings necessary on an up-to-date farm.

The department of cotton industry is distributing seed of the Sunbeam variety which is proving to be resistant to anthracnose, and is engaged in investigating many vital problems associated with the more economic production of cotton in the state.

The department of veterinary medicine is manufacturing hog cholera serum. It is possible through the use of the serum to largely control the destruction wrought by hog cholera. Its importance, therefore, needs no further emphasis. This department is also coöperating in every possible way with those agencies which are endeavoring to eradicate the cattle tick, and to control many diseases which cause serious loss to Georgia farmers.

Some of the most effective work done by the College is through the organization of the Boys' Corn Clubs and Girls' Canning Clubs. Separate departments are maintained for this service, and the interest has grown to such an extent that six special agents with headquarters at Atlanta, Savannah, Augusta, Tifton, Rome and Columbus, are maintained in the field. Georgia is the only state to provide local agents for the inspiration and redirection of the efforts of her boys and girls. This constitutes one of the most important lines of activity being carried on through the extension work of the College.

The various departments enumerated act as a clearing house of agricultural information for Georgia farmers.

During the year 817 meetings were held, and 101,201 people reached exclusive of those served through correspondence and by distribution of bulletins. Over 121,066 miles of travel were entailed to render this service, which included the organization of 54 itinerant schools, attended by 3,404 people; 120 farmers' institutes, attended by 23,350 people; boys' and girls' clubs in 139 counties, with an aggregate enrollment of 10,000; 20 teachers' institutes, attended by 1,842 teachers; 52 miscellaneous meetings, attended by 3,222 people; 485 boys' corn club meetings, attended by 64,386 people; 86 girls' canning club meetings, attended by 4,997 people. In addition over 250 people attended the meetings of the various organizations held at the college.

It is believed that one of the most efficient ways by which the farmers can be served is through the organization and promotion of extension or traveling schools. Fifty-four two-day extension schools were held during the spring of 1913, at the following places: Powder Spring, Carrollton, Tifton, Quitman, Thomasville, Doerun, Attapulgus, Edison, Shellman, Fort Gaines, Georgetown, Dawson, Woodland, Summerville, Thomaston, Villa Rica, Cedartown, Fayetteville, Decatur, Jasper, Blue Ridge, Eton, Greenville, LaFayette, Ringgold, Adairsville, Dalton, Monroe, Madison, Granite Hill, Folkston, Jesup, Blackshear, McRae, Rochelle, Eastman, Dublin, Reidsville, Pembroke, Springfield, Sylvania, Metter, Millen, Jeffersonville, Barnesville, Wellston, Warrenton, Lincolnton, Carnesville, Toccoa, Clayton, Clarkesville, Gainesville, Jefferson. As the schools are still in progress at this writing, the complete record of attendance cannot be given.

The response to this work has been most gratifying, and judging from the expressions of those in attendance, it is the most satisfactory method of reaching farmers that has yet been devised. The demand for meetings has been such as to make it clear that the present appropriation will be insufficient to meet the requirements of the work. These schools are conducted in a thoroughly practical manner. Among the topics discussed are the mixing and application of fertilizers, soils and soil cultivation, tillage and tillage implements, the selection and improvement of seed corn and cotton, diseases of live stock, dairying, fruit and truck problems, spraying and orchard management, the feeding and care of live stock. Demonstrations constitute an important feature of these schools. For instance, a clinic is held at which all the sick animals brought in are treated by a competent veterinarian. There are also spraying, dairy and seed testing demonstrations. Charts, models and other materials are carried along and a number of the lectures are illustrated. In this way the subject matter is presented in a graphic and practical manner, so practical indeed that many farmers who have attended the schools found it feasible to put the suggestions made by the instructors into practice with great benefit. The value of a system of extension teaching of this character can never be accurately estimated, but those who have seen the marvelous improvement in farm practice which has followed in the wake of limited effort in this direction realize fully what a systematic extension bureau may accomplish in stimulating an interest in better methods of farming.

Another feature emphasized by the extension department is the organization of boys' and girls' industrial clubs. The boys are being encouraged to grow corn under the specific rules and regulations laid down by the College, and the girls to organize canning clubs and to take a greater interest in cooking and sewing. Wonderful progress is being made this year. In this work the extension department has had the sympathetic coöperation of the great majority of the county school commissioners, of the Farmers' Union, the State Department of Agriculture, and a number of congressmen. Liberal prizes have been offered by a number of organizations and individuals so that the boys and girls entering these contests will have the privilege of competing for premiums totalling several thousand dollars. Through the organization of these clubs the attention of the boys and girls is being directed to a more thorough appreciation of the possibilities of the soil, the need of using fertilizers and acquiring a consistent knowledge of plant and animal life. In other words, agricultural instruction of a fundamental character is being introduced into the schools of the state and the fact that the boys have often been able to produce 100 bushels of corn per acre where their fathers were contented with 10 to 15, has demonstrated the great cultural and economic value of work of this character.

Speakers will be sent from the College to address farmers' gatherings or to discuss subjects of special interest to a given community. The officers of the College are working in coöperation with the county school commissioners, and lectures will be sent to teachers' institutes for the purpose of discussing ways and means by which instruction in agriculture in the common schools as provided for by law may be inaugurated. There is no service which can be rendered the people of the state at this time more important than that of fostering the teaching of the underlying principles of agriculture in the public schools. The teachers are not to blame for the apparent neglect of this subject, as there has been no channel through which they might obtain the needed information.

Another feature of extension work which the College is fostering is correspondence with farmers. Thousands of letters are annually answered, giving definite information relative to fertilizers, soils, crops, care and management of live stock, orchards and gardens. Every farmers in the state is invited to take advantage of the free correspondence course now conducted so extensively by the College, for in this way at the cost of a two-cent stamp any individual may obtain information worth a great deal of money to him with the least possible effort, and without the necessity of purchasing expensive books or taking a long trip to acquire the information. The College stands ready through its staff to assist every organization and every individual entitled to its service free of cost. As the College is now in position to organize a number of extension schools for teachers, it is believed that substantial progress may be anticipated.

FARMERS' INSTITUTES

The Board of Trustees of the University organized a farmers' institute system on January 16, 1903. When the Board of Trustees of the Agricultural College was created the management of the farmers' institutes was transferred to it. For several years the institutes were under the charge of Hon. Harvie Jordan, who, however, found the work so onerous and exacting that he decided to withdraw from it on November 1, 1907, when the work was turned over to the direction of Andrew M. Soule.

One hundred and twenty farmers' institutes were held during the past year at the following places: Pidcock, Camilla,Blackshear, Waycross, Meigs, Cairo, Folkston, Hahira, Donaldsonville, Moultrie, Edison, Ludowici, Tifton, Hinesville, Nashville, Blakely, Pembroke, Shellman, Reidsville, Ocilla, Ft. Gaines, Lyons, Ashburn, Georgetown, Cordele, Dawson, McRae, Vienna, Albany, Hazelhurst, Bryomville, Sylvester, Baxley, Lessburg, Pitts, Jeffersonville, Americus, Eastman, Ellaville, Dublin, Oglethorpe, Cusetta, Wrightsville, Woodland, Preston, Sandersville, Reynolds, Lumpkin, Louisville, Forsyth, Buena Vista, Stillmore, Barnesville, Hamilton, Millen, Thomaston, Dink, Locust Grove, LaGrange, Sylvania, Franklin, Springfield, Newnan, Waynesboro, McDonough, Carrollton, Jackson, Bowden, Harlem, Union City, Dearing, Douglasville, Cedartown, Linton, Acworth, Milledgeville, Cartersville, Rome, Gray, Eton, Summerville, Monticello, Canton, LaFayette, Rayle, Jasper, Trenton, Lincolnton, Ellijay, Monroe, Crawfordville, Blue Ridge, Jefferson, Eatonton, Lexington, Ringgold, Danielsville, Dalton, Covington, Elberton, Calhoun, Conyers, Hartwell, Dallas, Decatur, Carnesville, Lawrenceville, Alpharetta, Clarkesville, Adairsville, Clayton, Hiawassee, Blairsville, Demorest, Cleveland, Dawsonville, Fayetteville, Gainesville, Commerce, Jesup.

Institutes were offered to the remaining counties, but for various reasons satisfactory arrangements could not be made for the meetings.

From one to three speakers were sent to the following places where either farmers' meetings or educational rallies were held; if speakers were sent more than once, the number is indicated in brackets:

Lafayette, Sandersville, Warthen, Wrens, Springplace, Blackshear, Camden, Savannah, Waycross, Folkston, Thomasville, Donaldsonville, Covington, Dublin, Pine Log, McRae, Pidcock, Elberton, Rome, Commerce, Hartwell, Carnesville, Kensington, Atlanta (2), Albany, Macon (6), Augusta (3), Blakely (2), Edison (2), Camilla, Newton, Cairo, Boston, Quitman, Coolidge, Moultrie, Ft. Gaines, Cambridge, Arlington, Leesburg, Jonesville.

Representatives of the College addressed teachers' institutes at the following places during the year: Tifton, LaFayette, Calhoun, Decatur, Monroe, Eton, Newnan, Colquitt, Cusseta, Dahlonega, Ringgold, Clarkesville, Cass Station, Rome, Jonesboro, Blairsville, Euharlee, Toccoa, Millen, Dalton.

The work of the past year was more successful than ever before. An agricultural awakening is sweeping over Georgia, and if the increase in enthusiasm is as great in 1913 as it was in 1912, a larger sum of money must be appropriated by the state or institutes can not be held in many communities seeking them.

It is a pleasure to acknowledge the cordial coöperation and support extended to the institute work by leading citizens in every section where representatives of the College went; but for their assistance as well as that of the local press the meetings would not have been successfully organized. The list of meetings as enumerated above does not include a large number of points visited by representatives of the College to address, for instance, meetings of the Farmers' Union and other organizations of agricultural workers.

Representatives will gladly be sent to meetings of any organizations which have the welfare of the farmer at heart, and are endeavoring to disseminate information which will enable him to conduct his operations more successfully.

County Institute Officers.

County	President	Secretary
Appling	G. H. Tillman, Surrency	Ira Leggett, Baxley
Baldwin	Geo. Hollingshead, Jr., Milledgeville	
Bartow	W. M, Dodd, Adairsville	W. W. Trimble, Adairsville
Berrien	W. H. Griffin, Nashville	R. M. Mathis, Nashville
Brooks	W. W. Rast, Pidcock	J. W. Patterson, Pidcock, 1
Bryan	J. B. Bacon, Pembroke, 1	E. L. Lanier, Pembroke
Bullloch	J. W. Williams, Statesboro	
Burke	J. W. Hendrix, Sardis	
Butts	J. J. Mapps, Jackson, 5	S. Kirby Smith, Jackson
Calhoun	J. E. Goodwin, Edison	C. S. Sealy, Edison
Campbell	Robert Tatum, Union City	J. C. Langston, Fairburn
Carroll	W. L. Nix, Calvin, 2	L. W. Cunningham, Carrollton, 6
Carroll	J. L. Lovvorn, Bowdon	
Catoosa	W. E. Bryan, Ringgold	
Chattooga	Arthur Wheeler, Summerville	S. C. Jones, Summerville
Charlton	C. C. Powell, Folkston	A. H. Howard, Uptonville
Chattahoochee	R. W. Christian, Cusseta	N. A. Felton, Cusseta, 3
Cherokee	J. B. Keith, Canton	F. M. Bishop, Canton

County	President	Secretary
Clay	R. C. McAlister, Ft. Gaines	J. W. Suttlive, Ft. Gaines
Cobb	Mr. McClain, Acworth	Joe Abbott, Acworth
Colquitt	C. W. Turner, Moultrie, 3	W. P. Hires, Moultries, 5
Columbia	S. R. Phillips, Harlem	B. P. Mundy, Harlem
Coweta	B. L. Redwine, Newnan	Garland Jones, Newnan
Crisp	J. B. Atkins, Cordele	G. A. Tarpley, Cordele
Dawson	A. W. Vandeveer, Dawsonville	E. M. Fowler, Dawsonville
Decatur	J. T. Brown, Donaldsonville	W. H. Vanlandingham, Donaldsonville
DeKalb	J. C. Maness, Ingleside	L. S. Bottenfield, Ingleside
Dodge	C. M. Methvin, Eastman	B. T. Keith, Eastman
Dooley	J. M. Woodward, Vienna	E. E. Lewis, Vienna
Dougherty	W. B. Bullard, Albany	E. B. Adams, Albany
Douglas	J. T. Lee, Douglasville	W. W. Gresham, Douglasville
Early	D. W. James, Blakely	Joe. Freeman, Blakely
Effingham	J. W. Reiser, Clio, 2	B. W. Cubbedge, Guyton
Elbert	V. H. Jones, Elberton, 4	C. C. Whitesides, Elberton
Emanuel	O. Warren, Stillmore	L. Homer Edenfield, Stillmore
Fayette	A. O. Blalock, Fayetteville	W. M. Speer, Fayetteville
Fannin	Jas. P. Ritchie, Blue Ridge	Jno. B. Payne, Blue Ridge
Floyd	J. C. King, Rome	A. P. Jones, Rome
Franklin	Robert Fardum, Carnesville	J. W. South, Carnesville
Gilmer	B. S. Holden, Ellijay	J. T. DeWeese, Ellijay
Gordon	Thomas Rogers, Calhoun	E. Dillard, Calhoun
Grady	K. C. Moore, Cairo	Eugene Clower, Cairo
Gwinnett	C. R. Ware, Lawrenceville	
Habersham	M. C. Gay, Clarkesville	
Habersham	Dr. Frank Jenkins, Demorest	
Hall	W. E. Deal, Gainesville, 4	E. W. Johnson, Gainesville
Hancock	J. T. McClesky, Sparta	
Hart	A. J. McMullan, Hartwell	T. B. Thornton, Hartwell
Harris	B. F. Williams, Hamilton	J. M. Whitehead, Hamilton, 4
Heard	W. H. Daniels, Newnan	
Henry	T. J. Upchurch, Locust Grove	
Irwin	G. T. Young, Ocilla	F. M. Paulk, Ocilla
Jackson	L. G. Hardman, Commerce	J. D. Chandler, Commerce
Jackson	Luther Elrod, Jefferson	
Jasper	Rufus Smith, Monticello, 2	J. D. Lane, Gladeville, 1
Jefferson	T. Y. Smith, Louisville	S. M. Clarke, Louisville
Jenkins	S. C. Parker, Millen	Jas. Moore, Scarboro
Jeff Davis	I. L. Jones, Hazelhurst	J. A. Cromartie, Hazelhurst
Jones	Ralph Childs, Wayside	M. C. Green, Gray
Johnson	W. M. Faircloth, Wrightsviille	J. L. Harris, Kite
Laurens	M. S. Jones, Dublin	J. B. Tyre, Dublin
Lee	A. B. Martin, Leesburg	J. R. Miller, Leesburg
Liberty	J. H. Parker, Ludowici	W. H. Hughes, Ludowici
Liberty	E. B. Way, Hinesville	L. E. Stafford, Hinesville
Lincoln	W. C. Powell, Pansy	Jno. M. Wright, Lincolnton
Lowndes	W. W. Webb, Hahira	
Macon	J. P. Nelson, Oglethorpe	R. H. Stubbs, Oglethorpe
Macon	G. W. Beasley, Byromville	W. H. Byrom, Byromville
Madison	W. S. Sanders, Danielsville	J. N. Griffith, Danielsville
Marion	B. T. Peacock, Buena Vista	S. L. Fleming, Tazewell

County	President	Secretary
McDuffie	J. J. Pennington, Dearing	D. A. Howard, Dearing
Milton	T. Shirley, Alpharetta	T. L. Parker, Alpharetta
Mitchell	J. P. McRee, Camilla	E. M.. Davis, McRae
Monroe	Thos. G. Scott, Forsyth	R. S. Fort, Forsyth
Murray	Dr. T. W. Colvard, Eton	J. C. Ellis, Eton
Newton	Henry Odum, Covington	J. A. Cowan, Covington
Oglethorpe	W. H. Faust, Lexington	
Paulding	Dr. J. R. Ritch, Dallas	W. M. Turner, Dallas
Pickens	G. M. Bell, Jasper	J. H. Little, Jasper
Pierce	Q. A. Smith, Blackshear, 2	Samuel Ake, Blackshear
Pike	W. H. Maxwell, Barnesville	H. G. Woodall, Barnesville
Polk	Geo. C. Benedict, Cedartown	J. M. Hamrick, Cedartown
Putnam	W. C. Wright, Eatonton	
Quitman	I. L. Balkham, Georgetown	W. A. Hill, Georgetown
Rabun	L. M. Chastain, Clayton	
Randolph	R. F. Crittenden, Shellman	Oscar Crittenden, Shellman
Rockdale	W. L. Peak, Conyers, 5	L. A. Bowen, Conyers, 4
Schley	B. F. Green, Americus, 2	R. J. Perry, Ellaville, 2
Screven	J. H. Evans, Sylvania	W. C. Howard, Sylvania
Stewart	W. T. Holliday, Lumpkin	W. S. Boyett, Lumpkin, 4
Talbot	Gardner Culpepper, Woodland	A. J. Jordan, Woodland
Taliaferro	W. O. Holden, Crawfordville	W. O. Wright, Crawfordville
Tattnall	I. S. Smith, Reidsville	
Taylor	J. A. Mathews, Reynolds	R. L. Bodiford, Reynolds
Terrell	H. A. Petty, Dawson	C. T. Jordan, Dawson
Thomas	Thomas Davis, Meigs	W. M. Davis, Meigs
Tift	J. W. Hollis, Tifton	W. C. Martin, Tifton
Toombs	W. T. Mays, Ohoopee	J. L. Jones, Lyons, 1
Towns	Jesse M. Rice, Hiawassee	John M. Johnson, Hiawassee
Troup	F. M. Longley, LaGrange	W. L. Cleveland, LaGrange
Turner	A. S. Bussey, Ashburn	B. T. Reeves, Ashburn
Twiggs	B. S. Fitzpatrick, Fitzpatrick	W. O. Birdsong, Jeffersonville
Union	E. S. Crawford, Blairsville	C. E. Rich, Blairsville
Upson	W. H. Dallas, Thomaston	H. W. Barron, Thomaston
Walton	B. H. Jenkins, Monroe	Eugene Baker, Monroe
Walker	J. Suttle, Greenbush	F. B. Loyd, LaFayette, 5
Washington	I. A. Smith, Tennille	W. M. Kelly, Tennille
Wayne	J. P. Shedd, Jesup	R. L. Millikin, Jesup
Webster	C. C. Tracy, Preston	J. R. Stapleton, Preston
White	J. P. Evans, Cleveland	J. N. Bell, Cleveland
Wilcox	W. M. King, Pitts	A. J. King, Pitts
Whitfield	C. L. Foster, Dalton	
Wilkes	J. Luke Burdett, Rayle	
Worth	J. W. Mathews, Sylvester	J. R. Miller, Sylvester

Those counties interested in securing a meeting for 1913 should correspond with the College at the earliest possible date, so that arrangements may be made for the meetings some time in advance. The appropriation for holding institutes is very small, and as the work has to be done by a few men, it is necessary to prepare a schedule of meetings in advance, so as to save money and conserve the time of the instructors. Correspondence with reference to institutes is invited. If the farmers will coöperate with the College the best work ever done through this arm of the extension service can be accomplished during the year 1913. A report containing outlines of addresses delivered before the various farmers' institutes has been printed and is being distributed. Printed reports of leading addresses delivered at the College before the annual meetings of various state associations will be mailed free to any citizen in the state. It contains more than 250 pages, and some excellent papers on agricultural practice in Georgia. Every progressive farmer should have a copy of this report.

For further information, write the

GEORGIA STATE COLLEGE OF AGRICULTURE,
University of Georgia,
Athens, Ga.

MILITARY DEPARTMENT

W. R. KENDRICK,
First Lieut. 17th U. S. Infantry, Commandant.

In accordance with the provisions of the Land Grant Act, military exercises are regularly held in this University, upon which the attendance is compulsory by all members of the Freshman, Sophomore and Junior classes, and the students in the One-Year Course in Agriculture, except when excused by the Surgeon of the Corps of Cadets, or the Chancellor, for physical disability or other cause.

The uniform consists of a coat of standard Charlottesville gray cloth; winter trousers of same material, with stripe one inch wide; and blue cloth cap. The uniform costs about $15.55. For spring use white duck trausers, jeans trousers and blue shirt, leggings, and hat are required, costing about $4.50.

Practical instruction is given three hours each week, covering the following subjects: Infantry Drill Regulations; Field Service Regulations; Manual of Guard Duty; Firing Regulations for Small Arms; Artillery Drill Regulations, partial.

Theoretical Instruction, two hours each week for commissioned and non-commissioned officers, is given in the portions of the above subjects covered by the practical instruction, and is supplemented by lectures. **One hour each week of theoretical instruction is required of Freshmen.**

REGIMENT OF CADETS.

Roster of Officers and Non-Commissioned Officers.

Cadet Major, 1st Battalion—W. K. Meadow.
Cadet Major, 2nd Battalion—E. F. McCarty.
Cadet Captain and Adjutant of Regiment—C. E. Caverly, Jr.
Cadet 1st Lieutenant and Adjutant, First Battalion—C. J. Bloch.
Cadet 1st Lieutenant and Adjutant, Second Battalion—C. S. Smith.
Cadet Sergeant Major—C. V. Middlebrooks.
Cadet Quartermaster Sergeant—J. W. Popper.
Cadet Color Sergeant—C. B. Foley, C. E. Durden.
Cadet Drum Major—J. Hirshberg.

Cadet Captains.

Company "A"—S. T. Brewton.
Company "B"—Z. S. Cowan.
Company "C"—B. H. Chappell.
Company "D"—R. T. Goodwyn.
Company "E"—J. L. Robinson.
Company "F"—H. G. Howard.
Battery—E. B. Dunlap.

Cadet First Lieutenants.

Company “A”—
Company “B”—
Company “C” —C. Pope.
Company “D”—R. Cooper.
Company “E”—E. Daley.
Company “F”—J. Lindsey.
Battery—H. A. Kelly.

Cadet Second Lieutenants.

Company “A”—R. H. Patterson.
Company “B”—F. Cheney.
Company “C”—H. Whelchel.
Company “D”—T. J. Collins.
Company “E”—R. D. Short.
Company “F”—J. H. Moss.
Battery—O. N. Corley.

Cadet Sergeants.

Company “A”—J. Myers, B. J. Fletcher, J. D. Wade, W. H. Hurst.

Company “B”—F. Haselton, M. W. Redd, E. Pund.

Company “C”—T. R. Ginn, A. Bailey, C. M. Brown, W. W. Hardaway.

Company “D”—J. T. Hines, F. Moise, E. Blumenthal, S. B. Fisher, H. W. Riley.

Company “E”—J. I. Davis, A. A. Winter, E. Patman, R. N. Schwab.

Company “F”—G. L. Gray, E. M. Seabrook, J. Gunn, A. V. Callaway.

Battery—J. B. Conyers, T. M. Von Sprecken.

Cadet Corporals.

Company “A”—J. E. Owens, T. Hendricks, G. R. Jones, J. Nathan.

Company “B”—E. K. Overstreet, E. McWhorter, W. P. Price, J. C. Stewart, J. R. Wood, E. J. Pace, A. Sams.

Company “C”—H. Dobbs, N. Bassett, C. Howell, P. Abbott, D. Felker, W. L. Howard, R. Hawes.

Company “D”—W. R. Hastings, R. L. Griffith, E. J. Hardin.

Company “E”—R. Bassett, W. G. Webb, M. L. Gillis, H. H. West, W. K. Stanley.

Company “F”—C. W. Rawson, J. B. Adair, H. Clements, W. Houser, C. B. Davis.

Battery—S. A. Crump, E. E. Cocke, W. K. McLain.

THE PEABODY SCHOOL OF EDUCATION

FACULTY.

DAVID CRENSHAW BARROW, LL.D., Chancellor of the University, and Lecturer in the School of Education.

THOMAS JACKSON WOOFTER, A.M., LL.D., Dean, and Professor of Education and Philosophy.

JOSEPH SPENCER STEWART, A.M., Professor of Secondary Education; High School Visitor.

LUDWIG REINHOLD GEISSLER, Ph.D., Associate Professor of Psychology and Education.

HOWARD W. ODUM, Ph.D., Associate Professor of Educational Sociology and Rural Education.

LEROY COLLIER HART, B.S., E.E., Instructor in Manual Training, Professor of Farm Mechanics in the College of Agriculture.

HOWELL BENAJAH PEACOCK, B.S., Instructor in Physical Education.

Other members of the faculty of Franklin College and of the College of Agriculture and the Mechanic Arts.

A Scholar in Psychology.

A Scholar in Education.

CREATION OF THE SCHOOL OF EDUCATION.

In June, 1908, the trustees adopted a plan to convert the chair of Philosophy and Education into a School of Education, to merge the chair of Secondary Education, to provide a special building, and to enlarge the staff of instruction.

The matter of a special building was taken up with the Trustees and the General Agent of the Peabody Education Fund, and, pending an adjustment of this Fund there was a delay in the development of the School of Education. In June, 1911, it being fairly certain that an appropriation from the Peabody Fund would be made for the special building, the trustees of the University agreed to provide the annual maintenance to secure the Peabody appropriation. In December, 1911, the Peabody Board appropriated $40,000 for the building. Plans were matured and the construction completed in April, 1913. It will be known as George Peabody Hall, in honor of George Peabody who, in 1867, made his great gift to the cause of education in the South. This home of the Peabody School of Education is one of the most artistic, substantial, and well equipped buildings on the campus, an appropriate memorial to the South's greatest educational philanthropist.

PURPOSE OF THE SCHOOL.

The School of Education is a Teachers' College in the University for the following service:

1. The preparation of teachers for high schools, normal schools, agriculture and other special subjects, special supervisors, and superintendents of schools.

Such teachers and superintendents should have advanced collegiate scholarship and special preparation for their peculiar profession. It is beyond the province of the ordinary normal school to give much collegiate instruction, and our state normal schools are overburdened with the work to provide the elementary teachers. We must evidently look to the college and university for the education of men for teachers in the higher schools, for supervisors and leaders.

2. The study of Education as an instrument of culture, a factor of social control, social betterment, and economic progress.

Education is a social problem of great importance. It takes rank in a curriculum with sociology, political science and all social sciences. As a field for investigation looking to the improvement of the state of man, education is full of promise.

3. The study of such kindred fields as Psychology, Ethics, Philosophy, and Educational Sociology, which will give the proper outlook upon education in both its individual and social aspects.

The School of Education purposes to unify this work in both Franklin College of Arts and the State College of Agriculture and the Mechanic Arts.

REQUIREMENTS FOR DEGREES.

1. General Degrees.

In accordance with the general requirements for degrees in Franklin College and the State College, a student may select courses in Education counting toward any one of the degrees, Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Agriculture. Other requirements for these degrees limit the number of elective courses, but from three to four courses in Education are possible under general electives for these degrees.

2. Special Degree.

In the School of Education the degree, Bachelor of Science in Education will be conferred, the following conditions regulating the same:

1. The entrance requirements for the Bachelor of Science in Education are 14 units as follows: English 3; Mathematics 2½; History 2; Latin, German, or French 2; any other approved units 4½.

2. For graduation a credit of 66 hours must be obtained in accordance with the present general requirements.

3. Minimum requirements in subjects or groups are as follows: English 6 hours; Foreign Languages 6 in each of two; Mathematics 6; Natural Science 6; History 3; Psychology 3; Philosophy, Economics, Social Science 3; Education 9.

If five units of foreign languages have been offered for entrance, then 6 hours in one foreign language will be the minimum for Bachelor of Science in Education.

4. If the above requirements are met under conditions approved by the Dean of the School of Education, the degree of Bachelor of Science in Education will be conferred.

ARRANGEMENT OF SUBJECTS FOR THE SEVERAL YEARS.

The work of the Freshman year may coincide with that required for A.B., B.S., or B.S. in Commerce, or it may otherwise be arranged according to the following guide: English 1, 3 hours; Mathematics 1-2, 3 hours; Latin, German or French 3 hours; Physics, Chemistry, or Physiology 3 hours; Economic History and Geography, 1-2, 3 hours; Additional 3 hours as approved by the Dean of the School of Education, from History 2, Georgia History and Graphics, Manual Training, a language, a natural science. One hour of Military Science is also required.

The work of the Sophomore year must include English 2, 3 hours; Mathematics 3-4, 3 hours; Latin, French, or German, 3 hours; Psychology 1-2, 3 hours; additional 6 hours as approved by the Dean of the School of Education.

The work of the Junior and Senior years must be so elected as to complete the 66 hours including the minimum requirements not completed in Freshman and Sophomore years. There must be 9 hours in Education from 1, 3, 5-6, 4, 9, 10. Three more hours from Philosophy 3-4 (Logic-Ethics), Philosophy 8 (History of Philosophy), Economics, Sociology. Six or more hours from Latin, German, French, Greek, Spanish, unless the language requirements are met in Freshman and Sophomore years.

The schedule of each year must be elected under the advice of the Dean of the School.

A student preparing for educational work should select some line of work as a specialty, one or more subjects, such as History, English, Natural Science, Mathematics, and extend his special scholarship beyond the Sophomore class as far as possible.

A student wishing to make foreign languages his specialty should take the work for the regular A.B. degree, electing therein Psychology 1-2, Education 1, 5-6, 4, and Philosophy 3-4 or 8-9.

A student wishing to teach Agriculture should take the work for the regular B.S. in Agriculture, electing therein the courses in the School of Education named in the preceding paragraph.

COURSES OF INSTRUCTION.

Education.

1. **History and Principles of Education.**

(a) A study of the educational ideals and achievements of the great peoples of the world. 3 hours first half year.

(b) Social Principles of Education. A study of the social mind, social problems, and the social nature of education. 3 hours second half year. *Professor Odum.*

2. **Educational Psychology.** An introduction to the science of education. The laws of physical and mental growth are traced through infancy, childhood, and adolescence, and emphasis is laid on practical problems. Prerequisite: Psychology 1 or 5, Sophomore or Junior credit. Three hours a week, third term. Text: Pyle's Outlines of Educational Psychology. *Professor Geissler.*

4. **Secondary Education.** The American High School, its development, organization, courses of study, methods of teaching, and administration. A comparison with secondary schools in leading foreign countries. Three hours a week throughout the year. *Professor Stewart.*

5. **Educational Sociology.**

(a) Elementary Sociology. An introduction to the study of society and modern social problems. Social function of education.

(b) Rural Sociology. A study of rural conditions and a constructive program of betterment. 3 hours a week first half year. *Professor Odum.*

6. **Vocational Education.** Its development in various countries and its function in a democracy, with especial attention to **Agricultural Education.** Three hours a week second half year. *Professor Odum.*

9. **General Sociology.** A study of social organization and evolution, of social problems, and of education as an agency of social control and social progress. 3 hours a week, second half year. Taken with Philosophy 8. *Professor Odum.*

10. **Philosophy of Education.** A graduate course, open to seniors by special permission. Probably not given 1913-14. *Professor Woofter.*

20. **Physical Education.** A consideration of physical education in the schools and a preparation for its teaching and supervision.

(1) Two hours a week in class: Physical growth, normal standards at different ages, anthropometry, abnormal symptoms, corrective exercises, school hygiene, play, and playgrounds.

(2) Two hours a week in gymnasium: the army manual of calisthenics, exercises with dumb-bells, clubs, wands, apparatus work, games, track athletics, etc. The student trained to dexterity and to leadership through practice in directing. Three hours credit. *Mr. Peacock.*

22. **Manual Training.** A course which may be adapted to high schools.

(1) Wood Work. Care and use of tools. Preliminary exercises gradually leading up to designing and building furniture and other pieces of wood work for the home.

(2) Forge Work. Work with iron and steel. Tool making and tempering.

(3) Drawing. Freehand and instrumental in connection with the foregoing.

(4) Other manual activities.

Taken in Agricultural College, Farm Mechanics 1, 2, etc. Three hours credit. *Professor Hart.*

Psychology.

1. **Elementary Psychology.** This course will introduce to the general field of psychology. It will take up in lectures and recitations such topics as sensations, feelings, imagery, attention, association, memory, reasoning, will and action, and they will be illustrated by experimental demonstrations.

This work will cover the first two terms and should be followed by Course 2, Educational Psychology, for the last term. Text: Pillsbury, Essentials of Psychology. Sophomore or Junior credit. Three hours a week. *Professor Geissler.*

2. **Educational Psychology.** An introduction to the science of education. The laws of physical and mental growth are traced through infancy, childhood, and adolescence, and emphasis is laid on practical problems. Prerequisite: Psychology 1 or 5. Sophomore or Junior credit. Three hours a week, third term. Text: Pyle's Outline of Educational Psychology. *Professor Geissler.*

5. **Principles of Psychology.** This will be a more detailed study of the standpoints, problems, methods, laws, and physiological basis of psychology. Its various subbranches and relations to philosophy and other sciences will be outlined, and such topics as the structural, functional, and genetic aspects of mind as well as dreams, hypnosis, neurosis, criminal action, and animal behavior will be

discussed. Three hours weekly with laboratory work additional. This may be taken as a beginning course and may be counted as a Science in Group II. Text: Titchener's Text book of Psychology. Junior or Senior credit. *Professor Geissler.*

6. **Experimental Psychology.** The student will perform experiments and introspective exercises on such topics as color-vision, sound-localisation, expression of feelings, laws of attention and memory, reaction-times, Weber's law, absolute and differential limen, etc. The work will be based on Titchener's Manual of Exp rimental Psychology, Vol. 1, Qualitative Experiments, with a few experiments selected from Vol. 2, Quantitative Experiments.

This course may be counted as a Science in Group II. Prerequisite: Courses 1-2 or 5. The nature of the work makes it necessary for students to work in pairs for two hours at a time, at least twice a week. Junior or Senior credit. *Professor Geissler.*

7. **Systematic Psychology.** An advanced and detailed study of theoretical discussions and original investigations regarding a single special topic, as sensations, attention, memory, etc., and their quantitative treatment, with parallel reading of one general systematic treatise. Prerequisite: Psychology 1-2 or 5, and 6.

Major: Two conferences and four hours experimental work, weekly.

Minor: One conference and two hours experimental work, weekly, See Graduate School, p. 63. *Professor Geissler.*

11. **Applied Psychology.** An advanced and detailed study of systematic treatises on educational psychology and its quantitative methods of investigation. The subject-matter may be changed from time to time to comparative and abnormal psychology. Prerequisite: Psychology 1-2 or 5, and 6. Two conferences a week. Minor. See Graduate School, p. 63. *Professor Geissler.*

Philosophy.

3. **Logic.** A study of both deductive and inductive logic. Three hours a week first half year. *Professor Woofter.*

4. **Ethics.** A study of human conduct in its biological, psychological, and sociological phases. The moral aspects of present day problems of society, democracy, and human life generally. Three hours a week second half year. *Professor Woofter.*

8. **History of Philosophy.** A study of the movement of thought and an introduction to the great thinkers of the world. Some special study in the modern field. Three hours a week first half year. *Professor Woofter* or *Professor Odum.*

9. **Social Philosophy.** A study of social organization and evolution. Three hours a week second half year. *Professor Odum* or *Professor Woofter.*

THE SCHOOL OF COMMERCE

FACULTY.

DAVID C. BARROW, LL.D., Chancellor of the University.

R. E. CURTIS, Ph.D., Director of the School of Commerce, and Associate Professor of Applied Economics.

*——————, Associate Professor of Business Administration.

*——————, Assistant Professor of Economics.

Other members of the Faculty of Franklin College and of the State College of Agriculture and the Mechanic Arts.

SPECIAL LECTURERS, 1913-1914.

HERBERT E. CHOATE, Secretary and Treasurer of the J. K. Orr Shoe Co., Atlanta.
Commercial Organization and Management.

ANDREW J. COBB, Ex-Justice of the Supreme Court of Georgia.
Commercial Law.

HARRY HODGSON, Secretary and Treasurer of the Empire State Chemical Co., Athens.
Industrial Organization and Management.

JOEL HUNTER, Certified Public Accountant, Atlanta.
Auditing and Accounting.

GENERAL INFORMATION.

The tables compiled in accordance with the resolution of the General Assembly of Georgia, approved August 13, 1904, have revealed the fact that approximately sixty per cent. of the graduates of the University of Georgia later engage in business pursuits. From time to time professional courses have been organized to afford special preparation to those intending to follow other callings as the need for this preparation became evident. In continuation of this policy the University now offers an opportunity for professional and technical training in commerce, industry, and business administration.

It is the purpose of the School of Commerce to combine with a cultural education instruction and training which will familiarize students with the essentials of business practice, with the principles of sound and efficient policy, and with the social aspects of business activity and problems. It is the ultimate aim of the instruction given to promote the development of efficiency in business, the creation of high professional standards, and the adjustment of private interests to the public welfare.

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* Not yet elected.

The courses of instruction may be considered in three groups. The students are required to pursue a number of foundational and cultural courses in the various departments of the University. These courses are regarded as indispensible to a liberal education, and are preparatory to the more specialized courses. In this group are included the required courses of the Freshman and Sophomore years.

The technical or professional courses afford the fundamental training in business administration. These are the courses of the sub-department of Business Administration.

The third group comprises those specialized courses dealing with individual branches of business and commercial and economic problems. These are offered by the department of Economics.

ENTRANCE REQUIREMENTS.

Admission to the course in commerce is conditioned upon the fulfillment of the entrance requirements for the degree of Bachelor of Science in the College of Agriculture and the Mechanic Arts.

REQUIREMENTS FOR GRADUATION.

The degree of Bachelor of Science in Commerce will be conferred on students who have completed a course of 66 credit hours distributed thus:

English	6	Natural Science	12
Mathematics	6	Modern Language	12
Graphics	2	Economics	9
Georgia History	1	Business Administration	9
History and Political Science,	3	Free Electives	6

The required subjects will be taken in the order prescribed for the general course. The arrangement of other courses, and the selection of electives will be made upon the advice of the Director.

COURSES OF INSTRUCTION.

The courses offered in the School of Commerce are open for election in the other departments of the University, and form part of their curricula. Especial attention is called to the following:

BUSINESS ADMINISTRATION.

1. **Theory and Practise of Accounting.** Business forms, methods, and documents; columnar journalizing; principles of the various systems of accounting; the theory of accounting; methods of analyzing receipts, disbursements, assets and liabilities; profit, loss, and valuation statements; single proprietor, partnership, and corporation accounts; revenue, manufacturing, and trading accounts and balance sheets; realization, liquidation, and deficiency accounts;

cost keeping, depreciation, sinking funds, surpluses, reserve funds, bond discounts, commissions, and expenses.

Throughout the year, 3 hours and laboratory practise.

Required of Juniors in the School of Commerce.

2. **Advanced Accounting and Auditing.** The installation of accounting systems; executors,' receivers,' referees,' and trustees' accounts; brokerage, insurance, and contractors' accounts; the accounts of clubs, building and loan associations, of mergers and consolidations; public service corporation accounting; factory cost accounting; the analysis of accounting systems.

Throughout the year, 3 hours. Course 1 prerequisite.

3. **Commercial Organization and Management.** The study of the wholesale and retail trades, and the buying and selling activities of manufacturing concerns: the distribution and marketing of goods, sales to dealers, agents, and consumers; produce and commodity exchanges, commission systems, warehouse and elevator systems, brokers, foreign agents, trade associations and agencies; sales policies; advertising, purchasing, credit and collection policies; functional speculation.

First half of year, 3 hours. Open only to Seniors.

Required in the School of Commerce.

4. **Industrial Organization and Management.** The principles and methods of the organization and management of productive enterprises: capitalization, location and arrangement of plant and equipment, organization of administrative machinery, distribution of the force of employees; questions of efficiency and economy, the handling of data; services agencies, supply houses, factory reports, time and pay-roll records, equipment records; appraisals and inventories.

Second half of year, 3 hours. Open only to Seniors.

Required in the School of Commerce.

5. **Commercial Law I.** Definitions and terminology; the law of contracts, sales, agency, partnerships, corporations, real estate, commercial paper, trademarks and patents, bankruptcy, insurance, suretyship, public service companies, and certain phases of international law applicable to commerce.

Throughout the year, 3 hours. Open only to Seniors.

Required in the School of Commerce.

6. **Commercial Law II.** A study of state and federal statutory law regulating business and property, the methods and means of administering these laws, and the rights and duties of the parties concerned: the issuance of licenses, the regulation of dangerous businesses, the regulation of occupations, building and factory regulations in the interest of health and safety, pure food laws, the Interstate Commerce Law, the Sherman Anti-trust Act, the collection of tariffs and internal revenue, the granting of patents, the register-

ing of trademarks, the experimental and informational services of the government in aid of manufactures, agriculture, navigation, etc., the consular service in its relation to commercial matters.

Throughout the year, 3 hours. Open to Juniors and Seniors.

ECONOMICS.*

1. **Economic History.** First half of year, 3 hours. Required of Freshmen in the School of Commerce.

2. **Economic Geography.** Second half of year, 3 hours. Required of Freshmen in the School of Commerce.

3. **The Elementary Principles of Economics.** First half of year, 3 hours. Open only to Sophomores. Required of students in the School of Commerce.

4. **American Government.** Second half of year, 3 hours. Open to Sophomores. Required in the School of Commerce.

5. **General Economics.** Throughout the year, 3 hours. Open to Juniors and Seniors of all departments of the University.

6. **Money, Banking, and Credit.** First half of year, 3 hours. Open to Juniors and Seniors. Required in the School of Commerce.

7. **Corporation Finance.** Second half of year, 3 hours. Open to Juniors and Seniors. Required in the School of Commerce.

8. **Transportation.** First term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1912-1913 and alternate years.

9. **Public Service Companies.** Second term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1912-1913 and alternate years.

10. **Industrial Combinations.** Third term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1912-1913 and alternate years.

11. **Public Finance.** First term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1913-1914 and alternate years.

12. **Labor Problems.** Second term, 3 hours. Open to Juniors. Course 3 or course 5 prerequisite. Given in 1913-1914 and alternate years.

13. **Insurance.** Third term, 3 hours. Open to Juniors and Seniors. Course 3 or course 5 prerequisite. Given in 1913-1914 and alternate years.

14. **Agricultural Economics.** Throughout the year, 3 hours. Open to Juniors and Seniors.

GERMAN.*

3 (*b*). A commercial course. *Adjunct Professor DuBose.*

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*For detailed information concerning these courses see the departmental announcements, pages 83 and 109.

MATHEMATICS.

4*a*. **Insurance Mathematics.** An elementary course in algebra and its application in the calculation of annuities, insurance premiums, etc. Second half of year, 3 hours. *Professor Stephens.*

Students in the School of Commerce will stubstitute this course for course 4 in the second half of the Sophomore year.

ARRANGEMENT OF COURSES.

B.S. in Commerce.

Freshman.		Sophomore.	
English 1	3	English 2	3
Mathematics 1, 2	3	Mathematics 3, 4*a*	3
Modern Language	3	Modern Language	3
Georgia History	1	History 4	3
Graphics	2	Natural Science	3
Natural Science	3	Economics 3, 4	3
Economics 1, 2	3		
	18		18

<table>
<tr><th colspan="2">Junior</th><th colspan="2">and Senior.</th></tr>
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<tr><td colspan="4">Natural Science 6</td></tr>
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</table>

GRADUATE INSTRUCTION.

Graduate courses are provided by the Department of Economics to suit the needs of the students who present themselves for this instruction. For a description of the work offered in 1913-1914 see the announcement of the Graduate School.

Further information concerning the school will be supplied by the Director. Prospective students are invited to communicate in advance concerning their course.

THE LAW DEPARTMENT

FACULTY.

DAVID C. BARROW, LL.D., Chancellor of the University.

SYLVANUS MORRIS, A.M., B.L., Dean of the Law Department, Professor of Law.

THOMAS F. GREEN, B.L., Professor of Law.

JOHN H. T. McPHERSON, A.B., Ph.D., Lecturer on Roman Law.

ANDREW J. COBB, A.B., B.L., Lecturer on Procedure and Constitutional Law.

JAMES C. BLOOMFIELD, M.D., Lecturer on Medical Jurisprudence.

JOSEPH S. STEWART, A.M., Lecturer on Parliamentary Law.

The next session of this Department begins September 17th, 1913. The time requisite for graduation is two years. The fees are $75.00 per year, of which $40.00 are due at entrance and $35.00 at the opening of the spring term.

At the opening of the autumn term of the first year, Blackstone will be taken up, and lectures on the Constitution of the United States will begin.

On arrival here, report at the Chancellor's office, or to the Dean, in the Aacademic Building, on the University campus.

ENTRANCE REQUIREMENTS.

General. Students in this Department must not be less than eighteen years old, and must be of good moral character.

Junior Class. The requirements for admission to the junior class include fourteen units. A unit is measured by five weekly periods of forty minutes each for one year in a college or high school subject. This requirement may be met by presentation of a diploma of graduation from a University or College authorized to confer it; by presentation of a certificate from a college or accredited school; by taking the entrance examinations prescribed by the committee on entrance.

Conditioned Students. Those who can secure credit for twelve units may be admitted with an entrance condition of two units. Conditions must be removed by passing off the necessary units as the result of private study, or by doing additional work offered in the University; but college work thus offered for admission will not be counted toward a degree. The entrance condition must be removed before the student enters the senior class.

VALUE OF SUBJECTS IN UNITS.

	Units.
English: Grammar, Composition, Classics, Rhetoric	3
Mathematics: Algebra, Plane Geometry	2½
History and Civics:	
Ancient History to 814 A. D.	1
English History	1
American History and Civics	1
Modern History	1
Latin	3
A foreign language	2
Elementary Physics	1
Physical Geography	1
Additional year's work in foreign language	1
Botany	1
Chemistry	1
Drawing	1
Physiology	1
Elementary Agriculture	1
Biology	1
Advanced Work in Mathematics, History or English	1

Senior Class. Applicants for the senior class, in addition to the general requirements and the fourteen units, must have completed one year's course of study in a standard law school, or must have read law under advice and direction in a law office for one year, and must stand satisfactory examination on the work of the junior class.

SENIOR ENTRANCE EXAMINATIONS.

Examinations for students applying to enter the senior class will be held as follows:

Blackstone, Book I	Monday,	September	8th,	1913.
Constitutional Law	Tuesday,	"	9th,	"
Blackstone, Book II	Wednesday,	"	10th,	"
Contracts	Thursday,	"	11th,	"
Torts	Friday,	"	12th,	"
Sales and Bailments	Saturday,	"	13th,	"
Criminal Law	Monday,	"	15th,	"
Elementary Law	Tuesday,	"	16th,	"
Blackstone, Book III	Wednesday,	"	17th,	"

Examinations begin at nine o'clock A. M. each day.
Applicants are particularly urged to bear this in mind.

Transfers. Students transferring from the Academic Departments must obtain the written permission of the Chancellor and certificates from the proper officer of the University showing that they have been satisfactory students in those departments.

Elective. Students not applying for the degree may enter the Department upon complying with the general requirements and presenting the fourteen units.

METHOD OF INSTRUCTION.

The best features of the lecture and the recitation are secured by the method of instruction pursued in this Department. Reading is daily assigned in the text-book, the professor comments on the same, and the student is required to recite thereon. By this means each part of the subject is explained to the student, is then read by him, and he is either questioned thereon, or hears others questioned.

COURSE OF STUDY.

The course in this Department is completed in two years, consisting of four terms. The exercises of the University, including this Department, begin on the third Wednesday in September in each year and end at the annual Commencement on the third Wednesday in June.

The autumn term commences with the college year and closes the day before Christmas.

The spring term commences the day following New Year and closes at Commencement.

Two courses of instruction are pursued, to-wit, the Study Course and the Lecture Course, arranged as follows:

Study Course.

The class meets both of the professors of law daily (except Saturday and Sunday), with a previously assigned part of the text-book then being read. The professor delivers lectures explanatory of the text, and questions the members of the class on the text and the lecture of the previous meeting.

First Year.

The autumn term is devoted to the study of Blackstone's Commentaries, Elementary Law, American Law, Constitution of the United States, Constitution of Georgia, Part First of the Code of Georgia, relating to the political organization of the State, Personalty.

The spring term is devoted to the study of Contracts, Sales, Bailments, Torts, Municipal Law, Criminal Law.

Second Year.

The autumn term work covers the subjects of Commercial Law, Agency, Partnership, Common Law Pleading.

The spring term covers the subjects of Real Estate, Conveyancing, Domestic Relations, Equity, Principles and Pleading, Evidence, International Law, Corporations.

In addition to the daily recitation from the regular text-books, the students are required to consult other standard works on the various branches of the law.

Lecture Courses.

The class meets one of the several lecturers of the Department at the noon hour three times a week. The schedule is so arranged that the several courses of lectures do not conflict. The lecturers and their subjects are as follows:

Lectures are delivered during the session to each class by the Hon. Andrew J. Cobb, on Procedure and Constitutional Law.

Lectures on Medical Jurisprudence are delivered twice a week during the autumn term of the first year by Dr. J. C. Bloomfield. The text-book in this course is Ewell's Medical Jurisprudence.

A course of lectures on the Civil (Roman) Law is delivered by J. H. T. McPherson, Ph.D., Professor of History and Political Science, during the second year.

Lectures on Parliamentary Law are delivered during the second year by Prof. J. S. Stewart.

DEGREE.

Students who continue in actual attendance upon the exercises of this Department during the two years, of two terms each, to-wit: the autumn and spring terms, and who are admitted to the second year of the course, and continue in actual attendance for one year, of two terms, to-wit: the autumn and spring terms, and complete successfully the required course of study, receive the degree of Bachelor of Law of the University of Georgia.

ADMISSION TO THE BAR.

Under the law of the State the graduates of this Department are admitted to the bar, without examination in court, on presentation of the diploma.

Under a rule of the United States Court for the Northern District of Georgia, graduates of this department who have been admitted to the State Bar will be admitted to the District and Circuit Courts of the United States without examination.

HONORS.

Two members of the Law Department are allowed places among the Senior speakers on Commencement Day, and one representative of the Department on University Day. The speakers from the Law Department are chosen by the Faculty of the Law Department for general excellence in all the exercises and branches of study in the Department. Those of the Senior class only are eligible to these places, who have attended the full two years' course in this Department.

MOOT COURTS AND LEGAL EXERCISES.

After the students are sufficiently advanced, moot courts are held in which one of the professors presides, the juries being taken from the students in other departments of the University. The law students are assigned to act as counsel in the cases on trial. In these courts the students are taught the actual practice of law, such as pleading, drawing orders, moving for new trials, advocacy before the court and jury, the use of reports and text-books as authority; in short, all the elements of actual courthouse practice.

A Moot Parliament is conducted during the second year, wherein parliamentary practice is illustrated.

Throughout the course exercises are given in pleading and drawing deeds, wills and mortgages, and all kinds of legal documents, including commercial paper. It is the purpose of the Department to equip its graduates ready for active practice of the profession.

JEFFERSONIAN LAW DEBATING SOCIETY.

The law students conduct a successful and beneficial society, which meets once a week, and they debate questions of law. All students of the Department are eligible to membership in the society. The society is one of the most useful features of the law course.

EXAMINATIONS.

There are two kinds of examinations—oral and written. Each professor daily examines orally on the prescribed reading. Written examinations are held at the conclusion of each text-book or branch of study. These examinations are made very searching, and the student is given abundant time to write out his answers without assistance, thus impressing upon his mind what he has learned and disclosing accurately and impartially his progress.

LIBRARY.

The law library consists of the Georgia Reports and standard text-books. Under the laws of the State, the Georgia Reports and all other public books are furnished to the Department as soon as published.

The Secretary of the Interior has recently supplied this Department with valuable publications issued by the Government.

The Bancroft-Whitney Co., of San Francisco, have presented to the Department a complete set of their "practitioner's Series," which has been found of great value to the professors and students.

Through the generosity of the widow of the late Brantley A. Denmark, and mother of the late Thomas N. Denmark, the handsome law libraries of those two loyal sons of the University have been donated to this Department. The libraries contain complete sets of the reports of the Supreme Courts of the State and of the United States, digests and many standard text-books.

The Trustees appropriated, at their session in June, 1910, one thousand dollars, which has been expended to excellent advantage in the purchase of books. The Department now has the nucleus of an excellent library. A librarian is in charge, and access, at regular hours, is afforded to students. Many valuable text and reference books have been donated within the year by the State Library.

DISCIPLINE.

In matters of discipline, the students of the Law Department are governed by the same rules and regulations prescribed for other students of the University.

TWO YEARS' COURSE.

Ten years ago the Trustees of the University extended the course in this Department from one to two years. The wisdom, if not the necessity, of that action has never been doubted. The only apprehension was that the prospective students of law would not appreciate the advantages, and lack of sufficient numbers of students would impede the progress of the Department. The result has shown that these apprehensions are groundless. While the authorities of the University have never proposed legislation on this subject, it is most gratifying to know the opinion of the Georgia State Bar Association as expressed in the report of the Committee on Legal Education and Admission to the Bar, submitted and adopted, without amendment, at the meeting of July, 1908. The report, among other things, contains the following: "We believe that this Association should go on record as strongly recommending to young men who aspire to the bar, that they should not only first prepare themselves with a thorough academic education, but should also, when possible, take the law course at one of the excellent colleges of this state, or at one of the well known and thorough law schools of some other state. If the student is not able to take the college course, he ought to spend not less than two years in close study of the law under some good lawyer before he presents his application for admission.

"The course of study of law at all the colleges of this state should be made to extend over two years. It is to be hoped that the two-year course will soon be adopted by all the law schools. The Board of Examiners might well provide such examinations as will require two years' study on the part of the applicant to successfully pass.

"An able judge has said that he could easily tell when a young lawyer argued a law point before him whether he had taken the law course at a college. The advantage given by the college training is apparent.

"We are now insisting on a two years' course by the law student. We have made excellent progress within the few years past. We must depend on the State Board of Examiners and the law schools to aid in further progress."

TUITION AND EXPENSES.

The tuition in the Law Department is $75.00 per annum, divided as follows: $40.00 for the autumn term, to January first; and $35.00 for the spring term, from January first to Commencement. Tuition is payable in advance at the beginning of each term.

No matriculation or library fee is required in this Department. The students in law are entitled to the privileges of all other departments of the University, at Athens, without extra charge.

The expenses of the course are as follows:

Tuition, per annum, $75.00, total		$150.00
Initiation fee, literary society		2.00
Board, per month	$10.00 to	18.00
Washing, fuel and lights, per month		3.00
Stationery for the year		2.00
Text-books can be had for about (each year)		75.00

The incidental expenses of a student are just what he makes them, and the patrons of the University are urged to take into their own hands the control of a matter which no college regulations can reach.

For special catalogue, list of text-books and further information, apply to Sylvanus Morris, Athens, Ga.

THE PHARMACY DEPARTMENT

FACULTY.

DAVID CRENSHAW BARROW, LL.D., Chancellor of the University.

SAMUEL CALDWELL BENEDICT, M.D., Dean, Professor of Materia Medica.

HENRY C. WHITE, Ph.D., Sc.D., D.C.L., LL.D., Professor of Chemistry.

JOHN P. CAMPBELL, Ph.D., Professor of Physiology.

WILLIAM D. HOOPER, A.M., Professor of Pharmaceutical Latin.

L. L. HENDREN, Ph.D., Professor of Physics.

HOMER V. BLACK, Ph.D., Associate Professor of Chemistry.

CORNELIUS AUGUSTUS WELLS, M.S., Instructor in Chemistry.

E. T. MILLER, B.S., Instructor in Physics.

ROBERT C. WILSON, Ph.G., Sec'y., Professor of Pharmacy.

ANNOUNCEMENT.

The next session of this Department begins September 17th, 1913. The time required to complete the course is two years of three terms each. The first term begins at the opening of College in September, the third term ending at Commencement in June.

It is the aim of the University in adding the Department of Pharmacy to give to the profession of pharmacy men qualified to hold positions of trust and responsibility. It believes it can best serve this mission by giving educated men. With a view to a thorough comprehension of the course, the following

Entrance Requirements

have been adopted, corresponding to the standards of the American Conference of Pharmaceutical Faculties:

1. The applicant must be of good moral character.

2. He must be not less than 17 years of age, unless he be a graduate of one of the accredited high schools of this or other state.

3. A satisfactory completion of at least one year of work in an accredited high school or its equivalent shall be demanded.

Degrees.

1. Students who continue in actual attendance upon the exercises of this department during the two years of three terms each, and those who have been admitted to the second year of the course and continue in actual attendance for one year, and complete success-

fully the required course of study, receive the degree of Graduate of Pharmacy (Ph.G.) of the University of Georgia.

2. The regulations of the University do not permit the conferring of more than one academic degree upon the same person at one time. Exceptional and earnest students of the University, candidates for a baccalaureate degree, may, however, on recommendation of the Dean of the Department of Pharmacy, and with the approval of the Faculty, enter the course in Pharmacy and Materia Medica, and, on completion of all the studies included in the curriculum for Graduate in Pharmacy will be awarded this diploma, notwithstanding it may be conferred at the same time as the baccalaureate degree. This permission will be withdrawn immediately if it shall appear, from the standing of the student in any of his studies, that he cannot satisfactorily undertake the additional work. There is quite a demand and at good salaries for men completing this course and positions are open immediately after graduation. No other profession offers better inducements to young men.

Government.

Students of Pharmacy are governed by the same rules and regulations as are laid down for other students of the University, except that they are not required to drill.

COURSE OF STUDY.

Junior Year.

Satisfactory completion of the following subjects is required:

Chemistry. Course 2, general principles, Metals, Non Metals. Three hours recitation, one laboratory period of two hours per week during entire year. Text: Kahlenberg.

Elementary Physics. Physics 1. In this course especial emphasis is laid on the applications of the principles of Physics to practical life. Text-book: Mann and Twiss, Physics, with special laboratory notes. Two hours per week recitation and three hours per week individual laboratory work.

Physiology. Course 1. Two hours recitation per week. Text: The Human Mechanism, Hough and Sedgewick.

Botany and Materia Medica. Three hours recitation per week during entire year. Text: Bailey's Botany, Ruddiman's Materia Medica.

Pharmaceutical Latin. Two hours recitation per week during Fall term. Text: Sturmer's Pharmaceutical Latin.

Pharmaceutical Mathematics. Three hours recitation and three laboratory periods of two hours each during first eight weeks of the year. Including study of Weights and Measures, Specific Gravity, Specific Volume, Alligation, etc. Text: Sturmer's Arithmetic of Pharmacy.

General Pharmaceutical Operations. Three hours recitation and three laboratory periods of two hours each, during the remainder of the Fall term. This course includes the study of Evaporation, Distillation, Sublimation, Percolation, etc. Text: Arny's Pharmacy.

Official Pharmacy. Three hours recitation and three laboratory periods of two hours each per week. This course includes the study and manufacture of Waters, Syrups, Mucilages, Emulsions, Tinctures, Pills, etc., beginning in January.

Senior Year.

Organic Chemistry. Course 3. Three hours recitation per week with accompanying laboratory exercises.

Qualitative Analysis. Course 8. Three laboratory periods two hours each per week. Text: Noyes.'

Qualitative Analysis. By doubling the time in qualitative analysis and satisfactorily completing this course, students may obtain permission to take this work. An additional fee of $10.00 will be charged for this course.

Materia Medica. Three hours recitation per week during entire year. Text: Ruddiman's Materia Medica.

Manufacturing and Dispensing Pharmacy, Pharmaceutical Chemistry. Three hours recitation, three laboratory periods of two hours each per week during entire year. Texts: Arny, Remington, U. S. P., Scoville.

LABORATORIES.

No college of Pharmacy offers better laboratory facilities than are found at the University. We have in operation for students in Pharmacy five thoroughly equipped Laboratories.

In Pharmacy, Junior and Senior men occupy separate rooms. In Chemistry, three laboratories are in operation, one for Junior students, one each for men doing quantitative and qualitative analysis. The Physical laboratory is complete.

EXPENSES.

Junior Year.

Tuition, one-half payable at beginning of the term, balance at the opening of college in January,	$50.00
Literary Society Fee	2.00
Pharmaceutical Laboratory	12.50
Chemical Laboratory	2.50
Materia Medica	1.00
Physics Laboratory	3.00
	$71.00

Senior Year.

Tuition, payable as above	$50.00
Literary Society	1.00
Qualitative Analysis	10.00
Organic Chemistry Laboratory	2.50
Materia Medica	1.00
Pharmaceutical Laboratory	12.50
	$77.00

Other expenses, estimated:

Board and lodging, per month	$10.00 to	$20.00
Washing, fuels and lights, per month		3.00
Text-books for both years	$15.00 to	20.00

The individual expenses of a student are just what he makes them; no college regulation can control this matter.

No graduation or diploma fees.

Excellent table board on the coöperative plan can be had in Denmark Hall — the new dining hall — from $9.00 to $10.00 per month; elsewhere from $10.00 per month upwards. Rooms in the dormitories are rent free. The rooms contain bedstead, wash-stand, table and chairs. The student furnishes all other articles, mattress, pillow, etc., and a monthly fee of $2.50 is charged for light and attendance. On account of the large demand for rooms, application should be made to the Registrar as far in advance as possible.

If dormitory rooms cannot be obtained, or are not desired, the next cheapest plan is to rent a furnished room in some residence near the Dining Hall. Many such rooms are for rent on the campus and elsewhere. The prices range from $5.00 per month ($2.50 for each occupant) upwards, including rent of furniture and bedding, attendance and light, but not fuel.

If preferred, the student can obtain board and lodging in private houses, at prices ranging from $12.00 to $20.00 per month.

PRIVILEGES AND ADVANTAGES OFFERED AT THE UNIVERSITY FOR STUDENTS OF PHARMACY.

Self Help. Students of Pharmacy are eligible to apply for a loan from the Brown Fund to defray their expenses in college. Application for this loan should be made to the Chancellor.

Expense and Cost of Living are lower at the University than at any other college. Room rent in Candler Hall and New College is low, while table board may be had at Denmark Hall, accommodating between two and three hundred students, for $9.00 to $10.00 per month.

Pharmacopoeial Society. This is an organization by and for

Pharmacy students only. The society meets every Tuesday night for study and a quiz on subjects of interest to students of Pharmacy. The druggists and physicians of the city and vicinity are invited to meet with the Society, and once each month some prominent physician or druggist is invited to address the Society.

Quiz Class. This class meets once each week during the term for a quiz on such subjects as are liable to be touched upon by the State Board. Conducted by students. No fees.

Free Scholarships. No scholarships are offered as yet, in the School of Pharmacy, but in time scholarships such as are offered by the University School of Medicine will be available at the School of Pharmacy.

Library. The Library of the University is open from 9 A. M. to 5 P. M., to students in Pharmacy. This is a well lighted and ventilated building, set apart for reference and research work. Thousands of volumes relating to Literature, Science and Art are at the disposal of students.

Athletics. The School of Pharmacy is represented on both the football and baseball teams of the University. Athletics, while encouraged, are not allowed to conflict with college duties.

Societies. All students of the University are required to join one of the literary societies. These societies are presided over by officers elected from the student body and they afford opportunity for training men in Parliamentary Law, and in facilitating expression.

Other Courses. Pharmacy students may obtain permission to attend other courses without cost, offered in the University, when such work does not conflict with work in Pharmacy.

Reference Books. The School of Pharmacy has Dispensatories and Pharmacopoeias and text-books for reference by students.

Y. M. C. A. Plans are on foot for the erection on the campus of a Y. M. C. A. building.

Examinations are held at the end of each term, Christmas, March and June, supplemented by frequent oral and written quizzes.

Hospital Corps. This is optional with Pharmacy students, but it affords opportunity for military training, and a number of the students join the corps. (See military feature).

GENERAL STATEMENT.

Believing that the profession of Pharmacy should be encouraged and that a high educational standard should be maintained in training future pharmacists, the Trustees of the University felt that the State should have a hand in the education of its own pharmacists and have made this department a part of the University system.

The course as offered in this institution has been outlined by a registered pharmacist of this State, who has had ten years practical experience in retail establishments and who is in close touch with the pharmaceutical organizations of the State and with the individual pharmacists. It is felt that the course is very thorough both from a practical and a theoretical standpoint as is evidenced by the fact that all of our graduates have passed the State Board of Phrmacy and many are now proprietors and managers of first-class retail establishments.

It is not the claim of the University that "our graduates are fully prepared to take charge of an establishment on graduation," nor is it the aim to try to establish such conditions. The time that a student spends in pursuing this course is devoted to the study of fundamental principles which he may properly apply when he shall have had the necessary commercial and technical experiences.

For bulletins which describe this course in detail, and for further information, apply to

ROBERT C. WILSON, Ph.G., Secretary.

UNIVERSITY SUMMER SCHOOL

The Summer School for 1912 opened July 1st, and closed August 3rd.

OFFICERS 1912-1913

BOARD OF ADMINISTRATION.

DAVID C. BARROW, LL.D., Chancellor of the University, President of the Board.

M. L. BRITTAIN, A.M., State School Commissioner of Georgia.

*EUGENE C. BRANSON, A.M., President of the State Normal School.

CHARLES M. SNELLING, A.M., D.Sc., Dean of the University and President of Franklin College.

ANDREW M. SOULE, D.Sc., President of the State College of Agriculture.

THOMAS J. WOOFTER, LL.D., Dean of Peabody School of Education, University of Georgia.

Superintendent.

THOMAS J. WOOFTER, A.M., LL.D., Dean of Peabody School of Education, Professor Education and Philosophy, University of Georgia.

Registrar.

THOMAS W. REED, A.M., Registrar and Treasurer of the University of Georgia.

Director of Denmark Dining Hall.

CHARLES M. SNELLING, A.M., D.Sc., Dean of the University.

Director of Dormitories.

ROBERT E. PARK, Litt.D., Professor of English Literature.

Director of Preparatory and Coaching Department.

ROBERT S. POND, Ph.D., Assistant Professor of Mathematics.

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*Jere M. Pound, A.M., for 1913.

OFFICERS OF INSTRUCTION

SAMUEL M. BAIN, Ph.D.,------------------------------Lecturer.
Professor of Botany, University of Tennessee.

DAVID C. BARROW, LL.D.,-----------------------------Lecturer.
Chancellor of the University of Georgia.

NAN HARVEY BARKSDALE, Grad. G. N. & I. College, Student Teachers College--------------Rhetoric, High School English. Instructor in English, Georgia Normal and Industrial College.

WILLIS H. BOCOCK, A.M., LL.D., Greek, Pedagogy of Foreign Languages. Dean Graduate School, Milledge Professor of Ancient Languages, University of Georgia.

EUGENE C. BRANSON, A.M.,---------------------------Lecturer. President of the State Normal School.

M. L. BRITTAIN, A.M.,---------------------------------Lecturer. State School Superintendent of Georgia.

PETER F. BROWN, A.M., Grammar School Methods, Literature in the Grades. Head Professor English, State Normal School.

C. W. BRUCE, A.B.,------School Discipline, Principles of Teaching. Director Muscogee Elementary School, and Professor of Psychology and Pedagogy, State Normal School.

DUNCAN BURNET, ------------------------------------Library. Head Librarian, Peabody Library, University of Georgia.

GEORGE W. CAMP, A.M.,-----------------Psychology, Education. Master's Diploma Secondary Education, Teachers College, Columbia University. Professor of English and Education, North Georgia Agricultural College.

JOHN P. CAMPBELL, Ph.D.,---------Physiology, Zoölogy, Botany. Professor of Biology, University of Georgia.

CAROLYN COBB, ------------------------------------Expression. Graduate Emerson School of Expression; Teacher of Expression, Lucy Cobb Institute.

ROBERT J. H. DeLOACH, A.M.,----------Cotton Grading Lecturer. Professor of Cotton Industry, State College of Agriculture.

RUTH O. DYER,-----------------Nature Study, Primary Methods. Graduate Va. Normal, Washington, D.C. Normal, Student Teachers College, Critic Teacher, Georgia Normal and Industrial College.

NORA P. EDMONDSTON, Kindergarten Certificate,---Kindergarten. Training School, Kate Baldwin Free Kindergarten Association, Savannah, Ga.

JOHN R. FAIN, B.S.,--------------Agriculture, School Gardening. Professor of Agronomy, State College of Agriculture, University of Georgia.

JULIA A. FLISCH, A.M. (Ga. and Wisconsin)------------History. Instructor in History, Tubman High School.

ALCEE FORTIER, Litt.D.,----------------------History, Lecturer. Professor of Romance Languages, Tulane University, La.

H. J. GAERTNER, A.M., (Absent 1912)——History.
Professor of History, Georgia Normal and Industrial College.

L. L. HENDREN, Ph.D.,——Physics.
Professor of Physics, University of Georgia.

WILLIAM D. HOOPER, A.M.,——Latin.
Professor of Latin, University of Georgia.

HELEN P. HOOVER, Graduate Pratt Institute——Drawing.
Director of Art, Georgia Normal and Industrial College.

MARY KOLB, ——Physical Culture.
Student in Physical Culture, Teachers College.

VIRGINIA D. LOTT,——Basketry, Handicrafts.
Teacher in City Schools, Columbus, Ga.

JOSEPH LUSTRAT, Bach. ès Lett.,——French.
Professor of Romance Languages, University of Georgia.

A. H. MOON, A.B.,——Arithmetic, Algebra.
Superintendent of Schools, Baxley, Georgia.

FREDERICK A. MERRILL, B.S.,——Geography.
Professor of Geography and Nature Study, State Normal School.

E. T. MILLER, B.S.,——Drawing, Physics.
Instructor in Physics, University of Georgia.

JOHN MORRIS, A.M., ——German.
Professor of German and English Language, University of Georgia.

H. A. NIX, A.B.,——English, History.
Instructor in English and History, University of Georgia.

CAROL P. OPPENHEIMER,——Kindergarten.
Instructor in Training School of the Kate Baldwin Free Kindergarten Association, and Principal of Chatham Kindergarten, Savannah, Ga.

ROBERT E. PARK, Litt.D., English Literature, Literary Criticism.
Professor of English Literature, University of Georgia.

MARVIN M. PARKS, A.M.,——Lecturer.
President Georgia Normal and Industrial College.

R. S. POND, Ph.D.,——Algebra.
Adjunct Professor of Mathematics, University of Georgia.

E. M. POTEAT, D.D.,——Lecturer.
President of Furman University.

EDNA M. RANDALL,——Domestic Science.
Graduate Menomonee School for Home Makers; Teacher-elect of Domestic Science, State Normal School.

STEADMAN V. SANFORD, A.B.,——English Grammar, Shakespeare.
Junior Professor of English Literature, University of Georgia.

ROSWELL P. STEPHENS, Ph.D.,------------------Mathematics.
Associate Professor of Mathematics, University of Georgia.

JOSEPH S. STEWART, A.M.,------------------School Supervision.
Professor of Secondary Education, University of Georgia.

J. C. WARDLAW, A.M.,------------------Psychology, Education.
Professor of Psychology and Education, State Normal School.

GENERAL ASSEMBLY LECTURES.

These lectures are planned for open hours when all may attend. For 1913 a most entertaining and valuable program has been arranged. The lecture hour will be 8:45 p. m., making this the Chautauqua feature of the Summer School.

First Week.

July 1. Opening announcements. Addresses by Chancellor Barrow and State Superintendent Brittain.
" 2-3. Two Concert evenings with the Schubert Quartet.
" 4. Probably given to High School Contest program.
" 5-6. Two Lectures by Dr. E. M. Poteat, of Furman University.

Second Week.

July 8-9. Two Illustrated Bird Lectures by Professor R. J. H. DeLoach, of the Agricultural College.
" 10-11. Two evenings with Miss Evelyn Bargelt, Cartoonist.
" 12. Illustrated Bird Lecture by Professor DeLoach.

Third Week.

July 15-19. Five Lectures by Dr. Alcèe Fortier, of Tulane University, giving the romantic, dramatic, and wonderfully interesting story of Louisiana, its history and literature, and a true picture of the Creoles with their happy blending of the French, the Spanish, and the American civilizations.

Fourth Week.

July 22-23. Two Concert evenings with the Bunnell Concert Company.
" 24-25. Two Evenings of Humor with Mr. Marvin Williams.
" 25. (Tallulah Falls excursion.)

Fifth Week.

July 29-30. Two Illustrated Lectures on the Flowers of the Appalachian Mountains, and How Plants Travel, by Dr. Samuel M. Bain, of the University of Tennessee, sometime government botanist.
" 31-Aug. 1. Two Evenings with Mrs. G. B. Franklin, reader and impersonator.
Aug. 1. Closing Program. Presentation by the Class in Expression under instruction of Miss Carolyn Cobb, Hiawatha in Pantomime, in the grove, Lucy Cobb Institute yard.

ABSTRACT OF COURSES, 1912.

I. Education.

1. History of Education.
2. Educational Theory.
3. Educational Psychology.
4. Child Study.
5. Practical Pedagogy.
6. Primary Method.
7. Grammar School Method.
8. Literature in the Grades.
9. The Teaching of Natural Science.
10. The Teaching of Languages.
12. Literature in the High School.
13. The Teaching of History.
14. The Teaching of Reading.
15. School Government.
16. School Supervision.
18. Kindergarten.

II. Agriculture.

19. Nature Study.
20. Elementary Agriculture and School Gardening.
21. Advanced Agriculture.

III. English.

24. English Grammar.
25. Rhetoric and Composition.
26. English Literature.
27. Shakespeare.
28. Literary Criticism.
29. Expression.

IV. Geography.

31. Common Sch'l Geography.
32. Physical Geography.
33. Commercial Geography.

V. History.

35. U. S. History.
36. Civics.
37. Ancient History.

VI. Languages.

41. Latin, Elementary.
42. Caesar.
43. (a) Cicero. (b) Virgil.
45. Elementary Greek.
46. Advanced Greek.
48. Beginners' French.
49. Second Year French.
51. Beginners' German.
52. Second Year German.

VII. Manual Training, Etc.

54. Handicrafts.
55. Bench Work.
56. Drawing.
57. Domestic Science.
58. Physical Culture.
59. Music.

VIII. Mathematics.

62. Arithmetic.
63. Algebra I.
64. Algebra II.
65. Geometry I.
66. Geometry II.
67. Plane Trigonometry.

IX. Natural Sciences.

70. Physiology.
71. Biology.
72. Botany.
73. Zoölogy.
74. Physics.
75. Physical Laboratory.
76. Chemistry I.
77. Chemistry II.
78. Chemical Laboratory.

X. Philosophy and Social Science.

81. Psychology.

XI. Graduate.

101. Education, Educational Sociology.
102. English, The English Drama.

XII. College Preparatory and Conditioned.

Mathematics, 2 courses and 2 half courses.
English, 2 courses.
History, 2 courses.
Physics, 1 course.
Latin, 1 course.

And other courses to meet demands.

ANNOUNCEMENT FOR 1913

Additional courses will be offered in High School Pedagogy, State Reading Course for License, Secondary Agriculture, English History, Economics, Physical Education for Men, Blackboard Sketching for Teachers, Graduate Southern History, Graduate Educational Psychology, Graduate English, and other subjects.

OFFICERS OF INSTRUCTION.

DAVID C. BARROW, LL.D.,----------------------------Lecturer.
Chancellor of the University of Georgia.

NAN HARVEY BARKSDALE, B.S., Grad. G. N. & I. College, Columbia University Teachers College, Rhetoric, High School Literature, History English Literature. Instructor in English, Georgia Normal and Industrial College.

WILLIS H. BOCOCK, A.M., LL.D., Greek, Pedagogy of Foreign Languages. Dean Graduate School, Milledge Professor of Ancient Languages, University of Georgia.

MARION LUTHER BRITTAIN, A.M.,------------------Lecturer.
State School Superintendent of Georgia.

ROBERT PRESTON BROOKS, B.A. (Oxon), Ph.D., English History, Southern History. Associate Professor of Georgia History and Sociology, University of Georgia.

PETER F. BROWN, A.M., English Grammar, Language, Literature in the Grades. Head Professor English, State Normal School.

DUNCAN BURNET, ----------------------------------Library.
Head Librarian, Peabody Library, University of Georgia.

GEORGE W. CAMP, A.M.,----------------------------Education.
Master's Diploma Secondary Education, Teachers College, Columbia University. Professor of English and Education North Georgia Agricultural College.

JOHN P. CAMPBELL, Ph.D.,---------------Physiology, Zoölogy.
Professor of Biology, University of Georgia.

CAROLYN COBB, ----------------------------------Expression.
Graduate Emerson School of Expression; Teacher of Expression, Lucy Cobb Institute.

ROBERT J. H. DeLOACH, A.M.,----------------Cotton Industry.
Professor of Cotton Industry, State College of Agriculture.

DAVID L. EARNEST, A.M.,----Grammar School Methods, Practical Pedagogy. Head Professor of Natural Science, State Normal School.

LAWTON B. EVANS, A.M.,------------------School Supervision. Superintendent of Schools of Richmond County.

JOHN R. FAIN, B.S.,-------------Agriculture, School Gardening. Professor of Agronomy, State College of Agriculture, University of Georgia.

JULIA A. FLISCH, A.M., (Ga. and Wisconsin), U. S. History, Ancient History. Instructor in History, Tubman High School.

LUDWIG R. GEISSLER, Ph.D.,-----------Psychology, Child Study. Associate Professor of Psychology and Education, Peabody School of Education, University of Georgia.

LINVILLE L. HENDREN, Ph.D.,-----------------------Physics. Professor of Physics, University of Georgia.

HORACE A. HOLLISTER, A.M.,----------High School Pedagogy. High School Visitor, University of Illinois; author of High School Administration.

WILLIAM D. HOOPER, A.M.,----------------------------Latin. Professor of Latin, University of Georgia.

MARY G. KOLB,------------------------------Physical Culture. Certificate in Physical Culture, Teachers College.

VIRGINIA D. LOTT,---------------------Basketry, Handicrafts. Teacher in City Schools, Columbus, Ga.

JOSEPH LUSTRAT, Bach. ès Lett.,---------------------French. Professor of Romance Languages, University of Georgia.

FREDERICK A. MERRILL, B.S.,-------------------Geography. Professor of Geography and Nature Study, State Normal School.

ERALBERT T. MILLER, B.S.,---------------Drawing, Physics. Instructor in Physics, University of Georgia.

A. H. MOON, A.B.,------------------------Arithmetic, Algebra. Superintendent of Schools, Baxley, Georgia.

JOHN MORRIS, A.M.,-------------------------------German. Professor of German and English Language, University of Georgia.

IVAH F. MOYER,---------------Primary Methods, Nature Study. Critic Teacher in Muscogee Elementary School, State Normal School, Athens.

JULIA McARTHUR,\-\-\-\-\-\-\-\-\-\-\-\-Public School Music, Voice, Piano.
Pupil of Arthur L. Manchester, Converse College; Pupil of William L. Whitney, Boston. Teacher of Voice Culture, State Normal School, Athens, Georgia.

J. H. T. McPHERSON, Ph.D.,\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-Civics, Economics.
Professor of History and Economics, University of Georgia.

HOSEA ABIT NIX, A.B.,\-English, History.
Sometime Instructor in English and History, University of Georgia. Graduate Student, Harvard University.

ROBERT E. PARK, Litt.D.,\-\-English Literature, Literary Criticism.
Professor of English Literature, University of Georgia.

HOWELL B. PEACOCK, B.S.,\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-Physical Education.
Instructor in Physical Education, University of Georgia.

ROBERT S. POND, Ph.D.,\-Mathematics.
Adjunct Professor of Mathematics, University of Georgia.

JERE M. POUND, A.M.,\-School Supervision.
President of State Normal School, Athens, Georgia.

EDNA M. RANDALL,\-Domestic Science.
Graduate of Stout Institute, Menomonee, Wisconsin. Director of Domestic Science, State Normal School.

MILDRED RUTHERFORD, \-Lecturer.
Formerly Principal of Lucy Cobb Institute. Author and Lecturer.

STEADMAN V. SANFORD, A.B., (Absent 1913 in Europe on leave).
Junior Professor of English Literature, University of Georgia.

HENRY LAWRENCE SOUTHWICK, O.M.,\-\-\-\-\-\-\-\-\-\-\-\-\-\-Lecturer.
President of Emerson School of Oratory, Boston.

ROSWELL P. STEPHENS, Ph.D.,\-Mathematics.
Associate Professor of Mathematics, University of Georgia.

JOSEPH S. STEWART, A.M., School Supervision, High School Pedagogy. Professor of Secondary Education, University of Georgia.

MAUDE C. TOWNSEND,\-Drawing, Color Work.
Instructor in Drawing and Color Work, State Normal School, Athens.

HARRY C. WHITE, F.C.S., LL.D.,\-Chemistry.
Professor of Chemistry and Terrell Professor of Agricultural Chemistry, University of Georgia.

THOMAS J. WOOFTER, A.M., LL.D.,\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-Education.
Dean Peabody School of Education, Professor of Education and Philosophy, University of Georgia.

Instructor in Penmanship, and probably other instructors to be added.

GENERAL ASSEMBLY LECTURES.

These lectures are planned for open hours when all may attend. For 1913 a most entertaining and valuable program will be arranged. The lecture hour will be 8:15 p. m., making this the Chatauqua feature of the Summer School.

In the first week, President Henry Lawrence Southwick, of Emerson School of Oratory, will be with us for four evening programs of lecture, miscellaneous readings, and Shakespearian recitals. He will also give a series of talks on reading and public speaking. He will give his first program the opening evening, June 30th.

The following weeks will be just as rich with lectures, musical concerts, recitals, and entertaining programs. Some of the things in view are as follows:

Miss Mildred Rutherford, in Southern Life during Antebellum Days, and other Southern history sketches.

The Chicago Ladies Orchestra, eight musicians of rare talent and national reputation.

"Chalk Talks," by Alton Packard, the leading cartoonist.

The Riheldaffer-Gailey Company, another musical company of highest merit.

Lecture, by E. A. Pound. Character impersonations and literary recitals by W. Powell Hale.

Popular stereopticon programs, Children of Many Lands, Tours in Foreign Countries, by Frederick B. Wright.

And other programs yet to be arranged.

GENERAL INFORMATION

EXPENSES.

Railroad Rates. The Southeastern Passenger Association has granted a rate of one and one-half fare plus 50 cents on the certificate plan from stations in Alabama, Florida, Georgia, South Carolina, and Tennessee.

This means that when the ticket to Athens is purchased, a certificate from the agent should be also obtained. Upon reaching Athens the certificate should be filed with the Superintendent of the Summer School, who must sign the certificate to make it good for return. This will enable the holder to purchase a return ticket over the same route for half fare plus 50 cents. There will be no deposit fee for the Superintendent's office. Certificates do not have to be used immediately after being signed up, but may be used any time thereafter up to September 30th.

Tickets will be on sale beginning June 26th and continuing daily through July 19th, good to return any date up to September 30th.

Special Note.—The above provisions are found in Joint Passenger Tariff No. Exc-5546, issued February 13, 1913, and in which the following paragraph appears:

> **"Special Instructions to Agents.**
>
> "You must issue a separate certificate-receipt of the standard form to each passenger who requests a receipt for fare paid to you, whether such passenger intends to attend a meeting or not, and each such receipt must be given on a certificate-receipt of the standard form."

If any agent pleads ignorance, show him the above. It will be better to notify your agent a few days in advance, though this should not be necessary.

Every one coming is urged to bring a certificate to the Superintendent, even though not used for return. It will cost nothing and will help to get better rates another summer.

Registration Fees. The general fee for all Teachers' Courses is $5.00, which fee entitles the student to any courses elected and to a season ticket to the lectures.

The fee for Graduate Courses is $15.00 per session.

The fees for Preparatory and Coaching Courses are $20.00 for one course, $30.00 for two courses.

The fee for the Cotton Grading School is $1.00.

Board and Lodging. The University dormitories, Candler Hall and Old College, will be reserved for women, New College for men. The dormitories are now comfortably furnished and students occupying them need to bring toilet articles, sheets, pillows, spreads, and towels. The charge for rooming in the dormitories will be $3.50 for the session. These dormitories have been in the main refurnished and improved greatly. Room may be secured in advance by enclosing fee to the Registrar, T. W. Reed.

Meals will be served in Denmark Dining Hall, which is near the dormitories. The charges for meals will be $5.00 per week or $20.00 for the session of five weeks.

There will be a matron in charge of each of the dormitories for women and a reception room for callers will be provided.

In the vicinity, rooms may be rented for about $1.50 per week per person, and meals obtained at the Dining Hall or elsewhere. Room may be rented in the dormitory and meals taken at nearby private houses or restaurants.

Board and lodging in private families may be had for from $5.00 to $6.25 per week for the session, generally two in a room.

Books and Material. The cost of text-books nad material will of course depend upon the courses that the student may elect to pursue. From $3.00 to $5.00 should be ample. All necessary books and materials may be obtained here in Athens at moderate prices. Students who possess any books named in the outlines of courses should bring them, also any other books related to courses desired.

Other Expenses. A few dollars for laundry and incidentals will complete the list. For students occupying dormitories or renting rooms nearby the total necessary expenses while in Athens may be only $35.00 to $40.00 for the full session for teachers.

RECREATION.

After the first Saturday there will be no classes on Saturday unless arranged for by individual instructors. Excursions may be taken to nearby points of interest. Tallulah Falls, known as the Switzerland of the South, is but a few hours ride from Athens via Lula and Cornelia. Congenial parties may be made up almost any Saturday. A special through train will be run some day for the better accommodation of the Summer School on a Tallulah trip.

SWIMMING POOL.

Though the building is incomplete, the first floor of the new Alumni Hall is ready for use. This gives the students of the Summer School access to a magnificent swimming pool which is in this building. This will be open during forenoons for men, afternoons for women, under expert supervision. Bring bathing suits.

IMPORTANCE OF PROMPT AND REGULAR ATTENDANCE.

Students may enter at any time, yet the term is so short that for best results all students should come promptly for the first day and continue throughout the entire session. The first week's work is generally the key to the whole course.

Monday, June 30th will be registration day, and classes will begin work Tuesday morning at 8:45 o'clock. The opening program will be Monday, 8:45 p. m., in the Chapel. Students may register Saturday, 28th. Do not fail to hear President Southwick Monday evening.

PLAN OF COURSE OF STUDY.

The following scheme offers several arrangements of subjects for a systematic course leading to a diploma. Courses are to be taken in the Summer School for three or more sessions and these supplemented by intervening home work. This is for the benefit of teachers now in the field who cannot take advantage of the regular course in one of our normal schools or the University, but who wish the opportunity to extend their professional preparation.

REQUIREMENTS FOR THE TEACHER'S DIPLOMA.

1. To be eligible for this diploma, graduation from an approved high school or college, or the equivalent thereof, is required. Summer School courses must be pursued for at least three summer sessions, and all home work connected with any course must be completed and passed upon to get credit for that course. Ten such courses will be the minimum number to be completed, at least seven of which must include home study. Courses should be chosen so that the ones coming last may have the least amount of home work, otherwise another period must be given to home work. Not more than four may be counted any one session.

Courses may be elected to give several combinations, according to whether preparation is for primary, grammar, high school, or special work.

2. Required courses and electives are as follows: (1) Psychology or Child Study. (2) One course from Primary Method, Grammar School Method, High School Pedagogy. (3) History of Education. (4) School Management or School Supervision. (5) Two advanced courses not previously covered in high school or college. (6) Four more such advanced courses or courses from Manual Training or Agriculture Groups and common school reviews, or other courses needed.

3. Those desiring credit for any course must take an examination covering the work done in that course during the session of the Summer School and also work assigned for home study in connection with that course. Those not desiring credits need not take examinations.

A Teacher's Diploma with the title, Graduate of the University Summer School, will be conferred by the University upon any one completing the required number of acceptable courses.

Note that 10 courses must be completed, and that at least three summer sessions must be attended. There are four required courses, mostly of a professional nature, 1st, Psychology or Child Study, 2nd, one in Methods, 3rd, History of Education, 4th, School Management or School Supervision. Under High School Pedagogy, either Course 9, 11, or 17 may count.

Note that you must extend your scholarship through at least two advanced courses not previously taken. A partial list from which these may be chosen is the following: Economics, English, History, Literary Criticism, Trigonometry, German, French, Advanced Physics, Chemistry, Zoölogy.

The other four courses may be in line of what the student wishes to teach or merely by way of review.

The holder of this Diploma becomes eligible for a Professional License to teach.

EXAMINATIONS FOR TEACHER'S LICENSE.

On the last two days of the session, a regular State examination will be held for Primary, General Elementary, or High School License, or for renewals. The questions will be prepared and sent out by the State Superintendent as in other such examinations. Licenses so granted will be valid in any county.

EXAMINATIONS ON HOME STUDY.

Those doing home study courses during the year should report to the respective instructors for examination on Monday, June 30th, the opening day. This will clear the field for further work.

For further information or Summer School Bulletin, write to
THOS. J. WOOFTER, Superintendent,
Athens, Georgia.

REGISTER OF STUDENTS, 1912-1913.

GRADUATE STUDENTS

Allen, Reuben Winfield------------------------------Thomaston.
A.B., University of Georgia, 1911. Fellow in Chemistry. Chemistry, German.

Childs, Ross Renfroe-------------------------------------Athens.
B.S. Agr., University of Georgia, 1912. Tutor in Agronomy. Agronomy, Cotton Industry, Agricultural Chemistry.

Hollingshead, Robert Sullivan----------------------------Athens.
A.B., Cornell University, 1910. Adjunct Professor of Soil Chemistry. Agronomy, Agricultural Chemistry.

Hunnicutt, Benjamin Harris---------Lavras, Minas Geraes, Brazil.
B.S. Agr., Mississippi Agricultural and Mechanical College, 1905. Cotton Industry, Agronomy, Animal Husbandry.

Kiger, Claude Merton-------------------------------------Athens.
B.S. Agr., Purdue University, 1912. Tutor in Horticulture. Horticulture, Agronomy, Botany.

Leard, Emil Watson-----------------------------------Hartwell.
A.B., Mercer University, 1910. History.

Lucas, Walter Malry*---------------------------Waverly Hall.
B.S. in C.E., University of Georgia, 1912. Engineering.

Miller, Eralbert Talmadge--------------------------------Athens.
B.S. in C.E., University of Georgia, 1910. Instructor in Physics. Physics.

Moore, Henry Walter-------------------------------------Athens.
B.S., Clemson College, 1907. Agronomy, Veterinary Medicine, Animal Husbandry.

Newbern, Jefferson Lamar-----------------------------Broxton.
A.B., Meridian College, 1910. History.

Newsom, Charles Henderson--------------------------Eatonton.
A.B., University of Georgia, 1912. History.

Peacock, Howell Benajah ---------------------------------Athens.
B.S., University of Georgia, 1911. Instructor in Physical Education. Psychology, History, English Literature.

Sell, Edward Scott --------------------------------------Athens.
B.S. Agr., University of Georgia, 1910. Cotton Industry, Agricultural Chemistry.

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*Not a candidate for a degree.

Stone, Charles Holmes------------------------------------Athens.
B.S., University of Georgia, 1912. Student Assistant in Physics. English Literature, Roman Drama, History.

Woofter, Thomas Jackson, Jr.*----------------------------Athens.
A.B., University of Georgia, 1912. Phelps-Stokes Fellow, studying under the guidance of Professor R. P. Brooks.

STUDENTS PURSUING A COURSE OF GRADUATE STUDY COVERING A TERM OF YEARS, INCLUDING A MINIMUM OF THREE SUMMER SESSIONS.

Armstrong, May Ella*---------------------------------Barnesville.
A.B., Florida Normal College, 1891. Member of the Faculty, Gordon Institute, 1903—. Education.

Arnold, Elijah Singleton-------------------------------Oloh, Miss.
A.B., Meridian College, 1910. Education, English Literature.

Avery, Ora Hart*---Athens.
Graduate. Lucy Cobb Institute, 1906. Graduate student, L. C. I., 1911-1912. Member of the Faculty, L. C. I. English Literature.

Blackman, Neill Robert -----------------------------------Plains.
B.S., University of North Carolina, 1901. History, Education, Biology.

Brock, John James--Auburn.
A.B., Mercer University, 1911. Education, Biology.

Caldwell, Elizabeth Kinloch* ----------------------------Athens.
Member of the Faculty, Athens High School. English Literature.

Carlton, Wellborn Chaudoin------------------------------Auburn.
A.B., Mercer University, 1903. Education, English Literature.

Ginn, Candler Marion* -----------------------------------Royston.
Applicant for degree of B.S., University of Georgia; undergraduate work to be completed in 1912. Education, English Literature.

Harrison, Emily* --Rome.
Radcliffe College; University of Chicago; University of West Virginia; Sorbonne; University of Paris. Member of the Faculty Shorter College. English Literature, Education.

Lewis, Mamie Rebecca ------------------------------------Macon.
A.B. (Graduate Courses), Salem Female College, 1895. History, Education, English Literature.

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*Not a candidate for a degree.

Lyndon, Mary Dorothy------------------------------------Athens.
A.B., Wesleyan Female College, 1895. Graduate student, W. F. C., 1895-1897. English Literature, History, Education.

Mershon, James Austin---------------------------------Gainesville.
A.B., Emory College, 1900. Education, English Literature.

Nelson, Henry Elbert--------------------------------Spring Place.
B.S., North Georgia Agricultural College, 1911. Education, English Literature.

Newbern, Jefferson Lamar--------------------------------Broxton.
A.B., Meridian College, 1910. History, English Literature, Education.

Newsom, Charles Henderson-----------------------------Eatonton.
A.B., University of Georgia, 1912. English Literature, Education, History.

Nussman, George ---------------------------------------Atlanta.
Graduate, Evangelische Proseminar, Elmhurst, Ill., 1894. Eden Theological Seminary, 1894-1897. B.D., Yale University, 1905. Graduate student, Western Theological Seminary, 1906-1907. Education.

Sewell, Wilbur Stuart--------------------------------Rockmart.
A.B., Emory College, 1907. English Literature, Education, Latin.

Usher, George Ephraim ------------------------------Jefferson.
A.B., University of Georgia, 1900. English Literature, Education, Latin.

SENIOR.

Awtrey, Alonzo Freeman,	Science,	LaGrange.
Ballard, Robert Lee,	Agriculture,	Forest Park.
Bennett, William Tapley,	Agriculture,	Maxeys.
Bivins, Blake Blackshear,	Arts,	Grovania.
Bloch, Chas. Julian,	Arts,	Macon.
Boswell, William Hugh,	Arts,	Penfield.
Boyett, Wm. Jack,	Agriculture,	Morris Station.
Brand, Thos. Sherman,	Agri. Irreg.,	Augusta.
Brewton, Simon Turner,	Science,	Claxton.
Burch, James Butolph,	Arts,	Thomasville.
Callaway, Brantly,	Arts,	Augusta.
Campbell, Wm. Edward, Jr.,	Science,	Atlanta.
Carter, Frank,	Science,	Atlanta.
Caverly, Chas. Edward, Jr.,	Arts,	Atlanta.
Clark, Edward Percival,	Science,	Hephzibah.
Conklin, Hughbert William,	Science,	Atlanta.

Cooper, James LeRoy,	Civ. Eng.,	Augusta.
Cowan, Zachary Stuart,	Science,	Atlanta.
Crane, Herman Averill,	Science,	Savannah.
Cumming, Forrest,	Arts,	Griffin.
DeRenne, Wymberley Winslow,	Arts Irreg.,	Savannah.
Dunlap, Edgar Brown,	Arts Irreg.,	Gainesville.
Fitzpatrick, Mark Wm.,	Civ. Eng.,	Jeffersonville.
Floyd, Edward Lee,	Arts,	Chipley.
Freeman, Robert Hill,	Arts,	Newnan.
Garrison, Frank Davis,	Agriculture,	Cornelia.
Goodwyn, Richard Tuggle, Jr.,	Civ. Eng.,	Athens.
Harmon, Howard Banks,	Arts,	Gainesville.
Hill, Walter Barnard,	Civ. Eng.,	Athens.
Howard, Robert Powell,	Agriculture,	Barnesville.
Ingram, Wales Bryan,	Science,	Reynolds.
Jackson, Ernest Lee,	Arts,	Athens.
Johnson, James Guyton,	Arts,	Garfield.
Johnson, Miley Kimball,	Arts,	Garfield.
Johnston, David White, Jr.,	Arts,	Atlanta.
Jones, Thomas Fred.,	Civ. Eng.,	Mansfield.
Kelly, Henry Grady,	Civ. Eng.,	Monticello.
Koplin, Louis,	Arts,	Atlanta.
Lance, Thomas Jackson,	Arts,	Choestoe.
Liddell, Julian Gordon,	Agriculture,	Atlanta.
Lindsay, Jack Watson,	Science,	Savannah.
Martin, Charles Edward,	Arts Irreg.,	Culloden.
Moise, Theodore Sidney, Jr.,	Arts,	Savannah.
Morgenstern, Edward,	Arts,	Atlanta.
McCarty, Edwin Forrest,	Science,	Atlanta.
McCrary, Carl Cecil,	Science,	Royston.
McLarty, Hiram Roy,	Arts,	Douglasville.
Noble, George Henry, Jr.,	Science,	Atlanta.
Padgett, Grady,	Science,	Reidsville.
Parrish, Joseph Lamar,	Arts,	Athens.
Peacock, David Roscoe,	Science,	Eastman.
Pina, Florentino Severo,	Science Irreg.,	Athens.
Pina, Raul Esteban,	Civ. Eng.,	Athens.
Ransom, Elmer Inglesby,	Civ. Eng.,	Augusta.
Robinson, Julian Lowe,	Arts,	Atlanta.
Rothe, Henry Hino,	Agriculture,	Athens.
Sancken, George Albert,	Science,	Augusta.
Segall, Benjamin Isaac,	Arts,	Collins.
Slade, John Rhodes,	Civ. Eng.,	Columbus.
Smith, William Henry,	Arts,	Gainesville.
Stevens, Robert Tate,	Arts,	Elberton.

Watson, Luther Stephens,	Agriculture,	Logansville.
Wiley, Samuel Harris,	Arts,	Sparta.
Williams, George Livingston,	Arts,	Lawrenceville.
Williams, John Benjamin,	Agriculture,	Fort Valley.
Wilson, Wilbe Radford,	Agriculture,	Athens.
Woodruff, Joseph Grady,	Agriculture,	Dacula.
Worrall, Lloyd,	Agri.,	Barberton, Transvaal.
Yampolsky, Joseph,	Arts,	Atlanta.
York, Gustavus,	Science,	Quartz.
Young, John Law,	Agriculture,	Canton, China.

JUNIOR.

Adams, Otis Hill,	Arts,	Covington.
Asbury, Thos. Lyne,	Agriculture,	Crawfordville.
Bailey, Ernest Aubrey,	Arts,	Valdosta.
Barrett, Geo. Barnes,	Arts,	Augusta.
Benson, Enoch Blassingame,	Science,	Hartwell.
Bernd, Aaron Blum,	Arts,	Macon.
Brown, Charles McDonald,	Arts,	Atlanta.
Bryant, Clarence Avery,	Agriculture,	Royston.
Buchwald, Charles,	Agriculture,	Athens.
Bussey, Leland Stanford,	Arts,	Cuthbert.
Cheney, Frank W.,	Civ. Eng.,	Athens.
Collins, Thos. J., Jr.,	Arts,	Jackson.
Corley, Otis Herman,	Agriculture,	Athens.
Davis, Jefferson Irwin,	Agriculture,	Quitman.
Dillard, Edward Carleton,	Agriculture,	Arnoldsville.
Fletcher, Bob Jake,	Civ. Eng.,	Parrott.
Foley, Charles Burrus,	Science,	Columbus.
Funkenstein, Casper Ira,	Arts,	Athens.
Ginn, Tinnie Rucker,	Science,	Royston.
Gray, Claude Luke,	Science,	Appling.
Hains, John Thomas,	Agriculture,	Augusta.
Hardaway, William W.,	Arts,	Thomson.
Hitchcock, William Edgar,	Arts,	Dallas.
Holder, Goley,	Civ. Eng.,	Augusta.
Howard, Henry Grady,	Science Irreg.,	Lexington.
Howard, Julian Cooper,	Science,	Valdosta.
Hurst, Wm. Herbert,	Agriculture,	Social Circle.
Hutton, Malcolm Maclean,	Agriculture,	Savannah.
Johnson, Cornelius Howard,	Science,	Atlanta.
Johnston, James Augustus,	Agriculture,	Brunswick.
Jordan, Fred Capers,	Arts,	Monticello.
Lew, Timothy Tingfang,	Arts,	Wenchow, China.

Loyd, DeWitt Wilson,	Agriculture,	Newborn.
Maddox, Henry T.,	Arts,	Culloden.
Martin, Clarence Ellwood,	Agriculture,	Blakely.
Maxwell, Thomas Allan,	Arts,	Augusta.
Merry, Pierce,	Science,	Augusta.
Michael, Leroy,	Science,	Athens.
Middlebrooks, Chauncey V.,	Civ. Eng.,	Atlanta.
Myers, Joseph,	Arts,	Athens.
McCay, Frank Lee, Jr.,	Arts,	Gainesville.
McDaniel, Chas. B., Jr.,	Arts,	Atlanta.
McDonald, John Edward,	Science Irreg.,	Cuthbert.
McKamy, David Knox,	Science,	Dalton.
McWhorter, Robert Ligon,	Arts,	Athens.
O'Kelley, Edward Barbara,	Agriculture,	Gainesville.
Paddock, David Fleming,	Agri. Irreg.,	Brooklyn, N. Y.
Pattman, Everette,	Agriculture,	Athens.
Patterson, Russell Hugo,	Science,	Athens.
Pitts, Henry McDaniel,	Arts,	Calhoun.
Pope, Cadesman,	Civ. Eng.,	Athens.
Popper, Joseph W.,	Arts,	Macon.
Preston, William Gordon,	Arts,	Flovilla.
Pund, Edgar Rudolf,	Arts,	Augusta.
Riley, Howard Wade,	Arts,	Fort Valley.
Schwab, Richard Newell,	Science,	Atlanta.
Short, Robert Dunham,	Civ. Eng.,	Athens.
Small, Artie H., Jr.,	Arts,	Macon.
Summerour, Guy,	Science,	Duluth.
Symmes, Thomas Davenport,	Science Irreg.,	Brunswick.
Tabor, Paul,	Agriculture,	Danielsville.
Von Sprecken, Thos. Markwalter,	Civ. Eng.,	Augusta.
Wade, John Donald,	Arts,	Marshallville.
Walker, Carl Bridges,	Arts,	Shellman.
Westbrook, Edison Collins,	Agriculture,	Gainesville.
Whelchel, Hoyt Henry,	Arts,	Comer.
Wimberly, Olin J.,	Agriculture,	Macon.
Winter, Alphonse Anderson,	Civ. Eng. Irreg.,	Brunswick.

SOPHOMORE.

Abbott, Phillips,	Arts,	Louisville.
Abelson, Isadore,	Arts,	Atlanta.
Abney, Howard Teasley,	Arts,	Athens.
Abrams, David Moses,	Arts,	Macon.
Adair, Shields Brownfield,	Agriculture,	Bowman.
Aderhold, William Burton,	Science,	Commerce.

Akerman, Hugh,	Science,	Cartersville.
Austin, Won Tang,	Agriculture,	China.
Bassett, Noble Paul,	Arts,	Fort Valley.
Bassett, Raphael Phillips,	Arts,	Fort Valley.
Birch, George Snider, Jr.,	Agriculture,	Macon.
Blum, Charles William,	Sci., Irreg.,	Jacksonville, Fla.
Blumenthal, Elliott,	Arts,	Savannah.
Boorstin, Mendle,	Arts,	Covington.
Bowden, David Timon,	Arts Irreg.,	McDonough.
Bowen, James Young,	Arts,	Crawford.
Breedlove, Richard Edward,	Agriculture,	Campton.
Brown, Harry E.,	Arts,	Dallas.
Broyles, Edwin Nash,	Arts,	Atlanta.
Burckhardt, John George, Jr.,	Arts,	Atlanta.
Burford, Ashton,	Science,	Brunswick.
Burns, William Arnold,	Agriculture,	Commerce.
Burrage, Clarence Hill,	Forestry,	Saluda, N. C.
Callaway, Albert Victor,	Science,	Atlanta.
Chance, Claude C.,	Arts,	Graymont.
Chandler, Boyd Wilkins,	Arts,	Comer.
Chandler, Forrest Carter Tate,	Agriculture,	Commerce.
Claussen, John Christian Henry,	Civ. Eng.,	Augusta.
Cocke, Egbert Erle,	Science,	Dawson.
Cohen, Edward Myer,	Arts,	Athens.
Coker, Ross Wilson,	Science,	Rome.
Conyers, James Bennett,	Arts,	Cartersville.
Crafts, Arthur Gibbes,	Arts,	Macon.
Crocker, Clarence Newell,	Civ. Eng.,	Atlanta.
Crump, Stephen Alexander, Jr.,	Arts,	Macon.
David, Roy Cornelius,	Arts,	Danielsville.
Davis, Charles Barney,	Agriculture,	Tennille.
Davis, Charles Milton,	Arts,	Atlanta.
Davis, Joel Joseph,	Agriculture,	Tifton.
Dillard, William Reese,	Civ. Eng.,	Washington.
Dobbs, Herbert Clifton, Jr.,	Arts,	Marietta.
Donaldson, George Peter,	Science,	Statesboro.
Dozier, Laurens Gilmer,	Arts,	Thomson.
Felker, Daniel Burke,	Science,	Monroe.
Firor, George Henry,	Agriculture,	Athens.
Fisher, Sam B.,	Civ. Eng.,	Lavonia.
Florence, Mason J.,	Arts,	Powder Springs.
Fort, William Ray,	Agriculture,	Morrow.
Fry, Gilbert,	Agriculture,	Athens.
Gillis, Neil Lee, Jr.,	Arts,	Covena.

Goldsmith, Carl P.,	Arts,	Atlanta.
Graham, Paul,	Science Irreg.,	McRae.
Griffith, Robert Jenkins,	Science,	Athens.
Gunn, John McKenzie,	Agriculture,	Cuthbert.
Hardin, Edward John,	Arts,	Gainesville.
Harrell, Joseph E.,	Science Irreg.,	Gainesville.
Harris, William Norris,	Science,	Rome.
Hastings, William Raymond.	Agriculture,	Decatur.
Hawes, Richard Ellington,	Arts,	Thomson.
Head, Broadus John,	Agriculture,	Gainesville.
Headley, Chauncey Green,	Agriculture,	Boston.
Hendricks, Terrie Nichols,	Arts,	Nashville.
Hirschberg, Julian R.,	Arts,	Atlanta.
Hobson, William Grasty,	Forestry, Ir.,	Rutherford, N. J.
Holden, Frank Alexander,	Arts,	Athens.
Hood, Burke,	Arts,	Cuthbert.
Horn, Chan,	Agri. Irreg.,	Canton, China.
Houser, Wesley,	Science,	Fort Valley.
Howard, William Linton,	Arts,	Atlanta.
Howell, Clark, Jr.,	Arts,	Atlanta.
Hulsey, Hal,	Arts,	Atlanta.
Jacobson, Charles Wells,	Arts,	Tennille.
Jenkins, Walter Thomas,	Arts,	Valdosta.
Jones, Percival Connally,	Agriculture,	Herndon.
Lester, Louis,	Arts,	Atlanta.
Link, Ben,	Science,	Athens.
Little, Bird,	Agriculture,	Duluth.
Lord, Herman Griffeth,	Arts,	Commerce.
Lufburrow, Burley Mathew,	Forestry,	Oliver.
Martin, Louis Key,	Arts,	Athens.
Martin, Milward Wyatt,	Arts,	Atlanta
Mathews, Harold Henry,	Arts,	Comer.
Merritt, James Allen,	Arts,	Augusta.
Miller, Frank Oliver,	Civ. Eng.,	Athens.
Mitchell, Hubbard Garland,	Civ. Eng.,	Kirkwood.
Mitchell, Stephens,	Arts,	Atlanta.
Moise, Francis Marion,	Arts,	Atlanta.
Moon, Erastus Franklin,	Arts,	Monroe.
Moreno, Benjamin Curry,	Science, Irreg.,	Key West, Fla.
Morgan, John Guy,	Agriculture,	Mansfield.
Moss, John Hill,	Agriculture,	Athens.
McConnell, Bright,	Agriculture,	Commerce.
McGowan, Henri Charbonnier,	Science,	Augusta.
McLain, William Kenneth,	Arts,	Dawson.

Nanney, William Clyde,	Agriculture,	Brunswick.
Nathan, Joseph,	Arts,	Savannah.
Olmstead, Ogden John,	Arts,	Taylor's Creek.
Overstreet, Edward K., Jr.,	Arts,	Sylvania.
Owens, Justus Erwin,	Science,	Canon.
Pace, Earle Jackson,	Science,	Dawson.
Parrish, Guy A.,	Science,	Adel.
Peacock, Erle Ewart,	Arts,	Barnesville.
Pedrick, Scott Hicks,	Agriculture,	Quitman.
Philips, Matthew Perry,	Civ. Eng.,	Jacksonville, Fla.
Pinkussohn, Lewis A.,	Arts, Irreg.,	Atlanta.
Price, William Pinckney, Jr.,	Science,	Farmington.
Proctor, Lennie Groover,	Agriculture,	Brooklet.
Ragsdale, Elmo,	Agriculture,	Cornelia.
Rawson, William Allen,	Arts,	Atlanta.
Ray, James Morgan,	Arts,	Commerce.
Ray, James Wilmer,	Arts,	Atlanta.
Redd, Marion Woodville,	Agri. Irreg.,	Columbus.
Redman, William Morris,	Arts,	Jackson.
Reed, Albon Williams,	Arts,	Athens.
Richey, Hubert Guy,	Science,	Commerce.
Rountree, Ridge,	Agriculture,	Cobbtown.
Rubinstein, Douglas H.,	Arts,	Athens.
Sams, Augustine,	Arts,	Decatur.
Seabrook, Edward Marion,	Arts,	Columbus.
Slade, William,	Arts,	Columbus.
Smith, Benjmin Harper,	Arts,	Hilltonia.
Smith, Charles Richter,	Arts,	Concord.
Sparks, Willis B.,	Science,	Macon.
Stanley, William Kinnebrew, .	Agriculture,	Quitman.
Stewart, Arthur Pierce,	Arts, Irreg.,	McDonough.
Stewart, Joseph Spencer, Jr.,	Agriculture,	Athens.
Sullivan, Claude Hutcheson,	Arts,	Zebulon.
Sweat, Lonnie Ernest,	Arts,	Patterson.
Thomasson, James Toombs,	Science, Irreg.,	Carrollton.
Thompson, Henry Robert,	Science,	Bethlehem.
Timberlake, Lewis Rumph,	Science,	Marshallville.
Tolbert, Claude Thomas,	Arts,	Nicholson.
Walker, Julian West,	Arts, Irreg.,	Screven.
Wallace, Stephen Bailey,	Arts,	Locust Grove.
Walter, Gaines Winningham,	Arts,	Atlanta.
Ward, Charles Douglas,	Science,	Villanow.
Ward, Frank Crawley,	Agriculture,	Lumpkin.
Ware, Garnett,	Arts,	Danielsville.

Waters, Audley Alexander,	Science,	Woodcliff.
Weatherly, Eugene,	Science, Irreg.,	Athens.
Webb, William G.,	Arts,	Athens.
West, Linton Burnside,	Arts,	Cuthbert.
Whitehead, George Stevens,	Arts,	Carlton.
Williams, Herbert Daniel,	Arts,	Marietta.
Wilson, James Edgar,	Science,	Thomson.
Winn, Courtland S., Jr.,	Forestry,	Atlanta.
Wood, Jared Irwin,	Civ. Eng.,	Savannah.
Wood, James Raiford,	Arts,	Savannah.
Woodall, James Fletcher,	Agriculture,	Woodland.
Wright, Homer, Jr.,	Agriculture,	Grantville.

FRESHMAN.

Adams, Ben Terry,	Agriculture,	Macon.
Alexander, Lemuel Gilbert,	Arts,	Forsyth.
Allen, Charles Wesley,	Arts,	Shellman.
Allen, George D.,	Science,	Brunswick.
Allen, Henry Dawson, Jr.,	Science,	Milledgeville.
Ammons, Robert M.,	Science,	LaGrange.
Anderson, G. C.,	Forestry, Irreg.,	Wrens.
Andrews, Hugh Ector,	Agriculture,	Milledgeville.
Arnold, Harry Maxwell,	Science,	Monroe.
Atkins, Lawrence Comer,	Arts,	Gainesville.
Banks, Barron Donald,	Arts,	Grantville.
Barlow, William Wallace,	Agriculture,	Cochran.
Barnes, Paul,	Science,	Atlanta.
Barnett, Edward Augustus,	Agri., Irreg.,	Washington.
Baugh, Robert Lee, Jr.,	Architecture,	Atlanta.
Baxter, Andrew Harvey,	Civ. Eng.,	Atlanta.
Belser, Richard J.,	Agriculture,	Montgomery, Ala.
Bennett, Ernest Kontz,	Arts,	Waycross.
Berry, Newton Sylvester,	Science,	Loganville.
Bidez, Ernest Bass,	Science,	Rockmart.
Bond, Farrar Washington,	Arts,	Athens.
Bond, Hamilton Hickman,	Arts,	Danielsville.
Bradfield, Loyd,	Science,	LaGrange.
Brady, James Esmonde,	Science,	Atlanta.
Brewer, Albert Thomas,	Science,	Elberton.
Brinson, Remer Young,	Science,	Stillmore.
Brooks, Clive,	Science,	Royston.
Brown, Herman Judson,	Science,	Elberton.
Brown, Harry Lowrance,	Agriculture,	Flowery Branch.
Brown, Henry Warren,	Science,	Atlanta.

Buffington, Herbert E.,	Arts,	Gillsville.
Bunn, William Carden,	Arts,	Cedartown.
Bush, Newton Gale,	Agriculture,	Barnesville.
Bussey, Donald Nicholson,	Science,	Augusta.
Butterly, Joseph,	Arts,	Wrightsville.
Callaway, Robert Lee, Jr.,	Arts,	Lexington.
Camp, Lamar P.,	Arts,	Dallas.
Campbell, William Theodore,	Science,	Atlanta.
Cannon, David Terrell,	Agriculture,	Clayton.
Carter, Robert Leon,	Science,	Meansville.
Chance, Eulus Erin,	Science,	Smithville.
Chandler, Otis Opie Ashmore,	Agriculture,	Commerce.
Clements, Horace McCall,	Civ. Eng.,	Buena Vista.
Collins, Morris William H.,	Agriculture,	Ft. McPherson.
Collins, William Olin,	Agriculture,	Douglasville.
Comarata, James Tony,	Science, Irreg.,	Athens.
Cooper, Homer Emite,	Science,	Loganville.
Cromartie, Esten Graham,	Agriculture,	Hazelhurst.
Cromartie, Hendrick Lafayette,	Agriculture,	Hazelhurst.
Curtis, William Neel,	Agriculture,	Mansfield.
Daniel, John Coningham,	Science,	Decatur.
Daniel, Jackson Lee,	Arts,	Millen.
Davis, Joseph Shelton, Jr.,	Arts,	Albany.
deGraffenried, Robert Jackson,	Civ. Eng.,	Albany.
Dennis, Joseph L.,	Agriculture,	Atlanta.
Dimmock, Avary Miller,	Agriculture,	Athens.
Dolcater, John Henry,	Science,	Columbus.
Dorsey, Edward Hill, Jr.,	Science,	Athens.
Doughty, Roger Gamble,	Science,	Augusta.
Dunn, Murray Askew,	Science, Irreg.,	Americus.
Durden, Carl Ernest,	Science, Irreg.,	Graymont.
Durden, Walter Bonire,	Science, Irreg.,	Graymont.
Dyal, James Edgar,	Arts,	McRae.
Edwards, Childress Easterly,	Science,	Royston.
Edwards, Henry Grady,	Agriculture,	Oxford.
English, Louis Caple,	Civ. Eng.,	Warrenton.
Erwin, Julian,	Agriculture,	Athens.
Estes, Royce Nathaniel,	Agriculture,	Gay.
Fales, Ira,	Arts,	Douglas.
Farmer, Louis Turner,	Arts,	Louisville.
Folsom, Leon Lamar,	Arts,	McRae.
Francis, Montgomery Lyle,	Science, Irreg.,	Atlanta.
Franklin, Marvin Augustus,	Arts,	Athens.
Freeman, Thomas Cleveland,	Agriculture,	Commerce.

Fry, Henry Lee,	Agriculture,	Clarkesville.
Garmany, Wirt Winter,	Civ. Eng.,	LaFayette.
Gary, Martin Witherspoon,	Science,	Augusta.
Gresham, Wilder Quinton,	Science,	Cartersville.
Griffin, Rommie Alonzo,	Science, Irreg.,	Atlanta.
Griffin, William Abbott,	Arts,	Valdosta.
Griffith, Lloyd Brooke,	Science,	Athens.
Hammond, Robert Lee,	Arts,	Jackson.
Harber, Lamar Lucius,	Agriculture,	Royston.
Harber, Robert B.,	Science,	Commerce.
Harris, Richard Foster,	Arts,	Rome.
Haselton, Fred R.,	Science Irreg.,	Athens.
Hasty, William Dozier,	Agriculture,	Chickamauga.
Hathorn, DeWitt Donald,	Science,	Atlanta.
Henderson, John Green,	Civ. Eng.,	Cordele.
Hill, Pope Russell,	Agriculture,	Toccoa.
Hillis, Henry Clay, Jr.,	Forestry,	Girard.
Hillis, William Doughty,	Arts,	Girard.
Holleman, Oscar E.,	Arts,	Savannah.
Holliday, Paul Lovejoy,	Agriculture,	Athens.
Holmes, Champ Holt,	Science,	Macon.
Hosch, Ralph Belk,	Science,	Gainesville.
Howell, Julius Edward,	Science,	Cordele.
Jennings, Henry Smith,	Science,	Dawson.
Johnston, Jack Allen,	Agriculture,	Franklin, N. C.
Jones, Guy Rudolph,	Agriculture,	Norcross.
Jones, Joseph Clifton,	Science,	Carrollton.
Kelley, William Arlington,	Arts,	Crawford.
Kytle, Hansel Curtino,	Arts,	Athens.
Lang, Thomas Hiram,	Science,	Calhoun.
Langston, John Falligant,	Arts,	Sylvania.
Lanier, Fleetwood,	Agriculture,	Athens.
Lanier, Hollis,	Science,	Americus.
Lasseter, Horace Shelby,	Agriculture,	Vienna.
Longino, James Charles,	Arts,	Fairburn.
Lumpkin, John Gerdine,	Science Irreg.,	Athens.
Malone, Kirby Smith,	Agriculture,	Monticello.
Maner, Malcolm,	Science,	Warrenton.
Mathews, James Olin,	Agriculture,	Bronwood.
Mattox, Benjamin Bibb,	Science Irreg.,	Elberton.
Metcalf, Alston Mitchell,	Forestry,	Athens.
Miller, Charles Cox,	Agriculture,	Richland.
Miller, William Paul,	Agriculture,	Columbus.
Milstead, Frank Phillips,	Science,	Tallassee, Ala.

Moon, Steve Clay,	Agriculture,	Powder Springs.
Moorhead, Orian Alexander,	Agriculture,	Buckhead.
Morris, Lawrence White,	Science,	Thomson.
Murphy, Edward LeCount,	Arts,	Waycross.
McCall, Lewis,	Agriculture,	Norfolk, Va.
McCaskill, Allen Robert,	Agriculture,	Bainbridge.
McIntyre, William Fraser,	Arts,	Thomasville.
McLaws, Lafayette,	Arts,	Savannah.
McLean, John H.,	Science,	Douglas.
McWhorter, George Ellsworth,	Science,	Brunswick.
Nall, C. C., Jr.,	Arts,	Luthersville.
Nash, Davis Acton,	Agriculture,	Philomath.
Neville, George,	Agriculture,	Rabun Gap.
Newton, Henry Edgar,	Science,	Gabbettville.
Nicholson, John Walter,	Agriculture,	Athens.
Novins, Jack,	Forestry,	New York, N. Y.
O'Keeffe, Owen Richard,	Civ. Eng.,	Atlanta.
Palmer, Sam W., Jr.,	Science,	Millen.
Patterson, Lucius Kennedy,	Science Irreg.,	Cuthbert.
Peacock, Albert Byron,	Science,	Columbus.
Peacock, Thomas Gerald,	Arts,	Barnesville.
Perry, John Iverson,	Science,	Atlanta.
Persons, David Roy,	Science,	Monticello.
Pessin, Louis,	Agriculture,	New York, N. Y.
Peterson, James,	Science,	Ailey.
Phillips, Walter Paschall,	Civ. Eng.,	Atlanta.
Pinckard, Edward Swanson,	Science,	LaGrange.
Powell, Henry Asbury,	Arts,	Fitzgerald.
Powell, John William,	Arts,	Newnan.
Prather, Edward McCord,	Science,	Americus.
Price, James Harold,	Arts Irreg.,	Jesup.
Purcell, Jones,	Agriculture,	Lavonia.
Ramsay, Thomas Clyde,	Arts,	Toccoa.
Rawson, Clarence Weaver,	Science,	Athens.
Redding, Robert Jordan, Jr.,	Science,	Atlanta.
Reed, Cecil Allen,	Science,	Acworth.
Rey, Ygnacio Domingo,	Civ. Eng.,	Atlanta.
Richbourg, W. A.,	Arts,	Liberty, S. C.
Roberts, Llewellyn Kennath,	Science Irreg.,	Savannah.
Roberts, Madison Hines,	Science,	Milledgeville.
Rountree, Roy Lee,	Arts,	Summit.
Rush, John Paul,	Agriculture,	Adairsville.
Rutherford, William Fred,	Agriculture,	Union Point.
Scott, Milton Candler,	Arts,	Decatur.

Segall, Max Leon,	Arts,	Collins.
Shaw, Ervin David,	Science Irreg.,	Sumter, S. C.
Slade, Richard William, Jr.,	Civ. Eng.,	Columbus.
Smith, Charles Sweet,	Arts Irreg.,	Gainesville.
Smith, Herman Walton,	Civ. Eng.,	Appling.
Smith, LaFayette Richmond,	Agriculture,	Clayton.
Smith, Pulaski Sykes,	Agriculture,	Bellville.
Smith, Theodore Hammond,	Science,	Atlanta.
Sorrells, William Holman,	Agriculture,	Athens.
Spence, Nat C., Jr.,	Science,	Atlanta.
Stanton, William Lewis,	Civ. Eng.,	Athens.
Starr, Hoyt Augustus,	Agriculture,	Mansfield.
Steed, W. W.,	Science Irreg.,	Butler.
Stone, Bonnell Harrold,	Forestry Irreg.,	Oxford.
Summers, Walter Y.,	Agri. Irreg.,	Sargent.
Sweat, George Wilbur,	Arts,	Waycross.
Sweet, Charles B.,	Agriculture,	Athens.
Tanner, Charles Mabry, Jr.,	Arts,	Carrollton.
Tate, Edmund Brewer, Jr.,	Science,	Elberton.
Theus, Charlton M.,	Science Irreg.,	Savannah.
Thompson, Charles Eugene,	Science,	Atlanta.
Torbett, Ralph Sommerkamp,	Arts,	Columbus.
Troutman, Baldwin Lyttleton,	Agri. Irreg.,	Athens.
Tupper, Thomas Egleston,	Science Irreg.,	Atlanta.
Turner, Paul Charles,	Science,	McDonough.
Turner, William David,	Arts,	Jesup.
Vann, Harry Adoniram,	Arts,	Boston.
Veach, LaFayette,	Agriculture,	Trion.
Wagner, John Nathan,	Agriculture,	Newborn.
Walker, Pierre Gautier,	Agriculture,	Madison.
Wallace, Earl Clayton,	Science Irreg.,	Brunswick.
Watson, Hermon Hooper,	Arts,	Dallas.
Watson, William Mobley,	Science,	Hawkinsville.
Wesley, Robert Wright,	Arts,	Edison.
West, Henry Haynes,	Science Irreg.,	Athens.
Westbrook, Austin Sequard,	Science,	Commerce.
Westbrook, George Hall,	Science,	Commerce.
Wheatley, John Wright,	Science,	Americus.
Wilder, Cecil Newton,	Agriculture,	Pelham.
Wiley, Henry Gibbs,	Agriculture,	Eastanollee.
Wilkinson, Ford Lee, Jr.,	Arts,	Atlanta.
Williams, Meadow S.,	Science,	Commerce.
Williford, John Aubrey,	Science,	Commerce.
Wilson, Joe Edwin,	Arts,	Forsyth.

Wingate, Rosier Bunyan,	Arts Irreg.,	Camilla.
Wood, Joseph Henry,	Agriculture,	Douglas.
Woodward, Charles Willis,	Arts,	Jackson.

SPECIAL.

Ayers, A. J.,	Science,	Villa Rica.
Barrett, Roscoe Pope,	Arts,	Meansville.
Gowan, Charles Lee,	Agriculture,	Athens.
Grubb, Harry Lee,	Science,	Savannah.
Haley, Horace E.,	Science,	Commerce.
Lufburrow, William Augustus,	Science,	Oliver.
Martin, Benjamin Edward,	Agriculture,	Athens.
McLarty, Henry Woodfin,	Arts,	Villa Rica.
Newton, John Thompson,	Arts,	Athens.
Palmer, Ford,	Arts,	Cleveland.
Pendergrass, Neal Wayne,	Arts,	Commerce.
Robinson, Benjamin Harrison,	Arts,	Gainesville.
Robison, T. E.,	Science,	Jackson.
Wiggins, Joseph,	Chemistry,	Savannah.

ONE-YEAR COURSE IN AGRICULTURE.

Alexander, Joseph Remer	Reidsville.
Allen, Beverly Pierce	Athens.
Allison, Mance Thomas	Chickamauga.
Barrett, Roscoe Pope	Meansville.
Biggers, Willis Adolphus	Greenville.
Blanton, Fred Willmont	Mooresboro, N. C.
Boswell, Julius Adolphus	Penfield.
Briggs, W. Prescott	Athens.
Camp, William Ray	Campton.
Cobb, Howell	Athens.
Colquitt, Hopson Felix	Lexington.
Dillard, Thomas Hiram	Dillard.
Dukes, E. T.	Moultrie.
Dusenbury, John Calhoun	Savannah.
Echols, Robert Bonner	Atlanta.
Fenn, Fred Arthur	Moultrie.
Fleming, Allen Randolph	Athens.
Gaissert, George Turner	Buckhead.
Garnett, Thomas Harwood	Charlotte, C. H. Va.
Gibbs, Edgar Allen	Ty-Ty.
Glover, Addison Reese	Monticello.
Guess, W. Samuel	Denmark, S. C.
Holland, Benjamin F.	Dallas.

Hook, Huntington Lamar	Augusta.
House, Ferd McConnell	Gillsville.
Ingram, Robert F., Jr.	Atlanta.
Jones, Weaver Harrison	Madison.
Jordan, Edwin J.	Waycross.
Lavender, Walter Ellis	Haralson.
Leath, Ben	Kensington.
Lobdell, Harvey S.	Chicago, Ill.
Lumsden, Jesse Cornelius	Talbotton.
Martin, Charles Jones	Flemington.
Mathews, Lewis Potter	Talbotton.
Moss, Rufus L., III	Athens.
Nasworthy, Millard Gamble	Dawson.
Olson, Charles Willard, Jr.	Atlanta.
Phillips, Allen Martin	Climax.
Phillips, Charles Pelham Love	Thomasville.
Smith, William Joseph	Woodland.
Strickland, Joseph Henry	Roswell.
Trimble, Robert Lee	Trimble.
West, William Leon	Athens.
Williams, Willis Bryan	Savannah.
Wilson, Joseph Lawson	Eatonton.

SHORT COURSE STUDENTS IN AGRICULTURE.

Adams, Owen Mathis	Tennille, Ga., R. F. D. No. 1.
Adams, Jos. T.	Elberton, Ga., R. F. D. No. 6.
Alexander, Miss Carlotta	Washington, Ga.
Anthony, Clarence L.	Pine Log, Ga., R. F. D., No. 1.
Arnold, Joseph Wilson	Dry Branch, Ga.
Baldwin, Miss Eula	Fletcher, N. C.
Bennett, Chas. Lester	Jefferson, Ga., R. F. D. No. 6.
Bozeman, Oswell Agira	Shingler, Ga.
Bradford, Dr. Wm.	Cedartown, Ga.
Brown, John Benjamin	McDonough, Ga., R. F. D. No. 3.
Brown, Edward M.	Middleton, Ga.
Bullard, William Henry	Camilla, Ga.
Chamblee, Alex. Stephens	Bartow, Ga., R. F. D. No. 2.
Chastain, John Albert	Thomasville, Ga.
Collier, Vines Lester	Meansville, Ga.
Collins, Eugene Seymour	Blakely, Ga.
Collins, Mary O.	Turnerville, Ga.
Cornelius, Wm. Oliver	Cedartown, Ga.
Cown, Sam Mark	Union City, Ga.
Cox, Chas. Sherman	Cass Station, Ga.

Cromer, Dr. Lindsey Carlton---------Union Point, Ga.
Cubbedge, Bart Williams ---------Guyton, Ga.
Cunningham, G. V. ---------Tifton, Ga.
Daniel, Wyatt Heflin---------Newnan, Ga., No. 68 College Street.
Davis, Billy Jeff---------Taylorsville, Ga., R. F. D., No. 1.
Davis, Corbin Lyman---------LaGrange, Ga., R. F. D. No. 3.
Dowling, Samuel Leonard, ---------Valdosta, Ga.
Durham, Garrett Reginald ---------Ashburn, Ga., R. F. D. No. 3.
Eskew, David Bryant---------Eastanollee, Ga.
Foster, Chas. LaFayette ---------Dalton, Ga., R. F. D. No. 5.
Freeman, Robert Wallace---------Lamar, Ga., R. F. D. No. 1.
Gay, Richard Dawson---------Cuthbert, Ga.
Giles, J. K.---------Atlanta, Ga., Chamber of Commerce.
Giles, George F. ---------Fairburn, Ga.
Gilbert, William T. ---------724 Piedmont Avenue, Atlanta, Ga.
Gowan, Mrs. C. Lee---------353 Broad Street, Athens, Ga.
Gower, William Cornelius---------Monroe, Ga., R. F. D. No. 4.
Griffith, Roy ---------Danielsville, Ga.
Halliday, William Thomas---------Lumpkin, Ga.
Harris, Gilford Lacey ---------Fayetteville, Ga.
Harrison, Sam Paul Henry---------Crawfordville, Ga., R. F. D. No. 1.
Heath, Ralph B.---------Howard, Ga., R. F. D. No. 1.
Hartley, A. L.---------Harrison, Ga., R. F. D. No. 2.
Hendrix, J. Walter ---------Savannah, Ga.
Hess, Elam G. ---------Leary, Ga.
Hess, Mrs. M. E. ---------Leary, Ga.
Hodges, Robert Harry---------Loganville, Ga.
Hodges, Fred Wright---------Halcyondale, Ga., R. F. D. No. 2.
Holmes, Leonard Arthur---------Ranger, Ga., R. F. D. No. 1.
Hunter, Robt. Sidney---------Decatur, Ga.
Jackson, Edward Talbot---------Carrollton, Ga.
James, C. M. ---------Columbus, Ga.
King, Bartow E.---------Glenwood, Ga.
Lewis, William Crawford---------Wellston, Ga., R. F. D. No. 1.
Logan, Franklin Ramsey---------Madison, Ga.
Logan, Joseph L.---------Waycross, Ga., R. F. D. No. 5.
Logue, Wm. Albert ---------Gibson, Ga.
Lyle, Jno. Clinton---------Crawfordville, Ga., R. F. D. No. 2.
Manning, William Norman---------Funston, Ga.
Marks, L. L. ---------Mansfield, Ga.
McElhaney, Blanton E.---------Gladesville, Ga., R. F. D. No. 1.
Mooney, Benjamin Southard---------Statesboro, Ga., R. F. D. No. 7.
Morgan, Stephens Edward---------Union City, Ga.
Moss, Mrs. John D. ---------Athens, Ga.

Newsom, J. C.	Washington, Ga.
Oliver, Jonas Granberry	Macon, Ga., R. F. D. No. 1.
Owens, Samuel Feagin	Pinehurst, Ga.
Parker, Lonnie Lee	Daisy, Ga.
Pittard, Howard Julian	Winterville, Ga.
Pitts, David Jackson	Bowman, Ga.
Pittman, James Thomas	Attapulgus, Ga.
Pittman, Guy Thomas	Jefferson, Ga.
Polhill, John Goldwire	Sylvester, Ga.
Preston, John Wesley	Newton, Ga., R. F. D. No. 4.
Radford, Leo	Dublin, Ga., R. F. D. No. 4.
Rast, William Walter	Pidcock, Ga.
Reed, Alex. Hamilton	Eatonton, Ga.
Rice, G. E.	Augusta, Ga.
Richardson, Sinclair McMullan	Hartwell, Ga.
Saggus, Samuel Watson	Crawfordville, Ga., R. F. D. No. 1.
Sibley, J. Hart	Union Point, Ga.
Smith, Job Elbert W.	Waycross, Ga.
Smith, David Harrison	Swainsboro, Ga.
Smith, William Richie	Fender, Ga.
South, Jas. William	Martin, Ga., R. F. D. No. 3.
Summerour, Harrison	Duluth, Ga., R. F. D. No. 2.
Swain, Lewis Edward	Warrenton, Ga., R. F. D. No. 4.
Trapnell, John Gideon	Metter, Ga.
Thurmond, Sammie	Jefferson, Ga., R. F. D. No. 5.
Tucker, William Richard	Summerville, Ga., R. F. D. No. 3.
Tyre, James Bedo	Dublin, Ga., R. F. D. No. 5.
Ulhorn, A.	Waycross, Ga., R. F. D. No. 5.
Walker, Moses Wesley	Blackshear, Ga.
Walters, John Thomas	Gainesville, Ga.
Ward, Patrick Henry	Ochlochnee, Ga.
West, Jordan William	Ft. Gaines, Ga., R. F. D. No. 1.
Whitner, John Charles	Porter Springs, Ga.
Wicker, David	Americus, Ga.
Wilkinson, Robert Dawson	Deepstep, Ga., R. F. D. No. 2.
Yates, William Wyley	Temple, Ga.

SUMMER COTTON GRADING COURSE.

Anderson, Ernest	N. Augusta, S. C.
Brooks, Miss Willie May	Crawford, Ga.
Carswell, Jas. H.	Hephzibah.
Dootson, W. R.	Athens.
Ellenwood, Henry M.	Collins.
Ellinger, Alfred M.	264 Riverside Drive, New York, N. Y.
Gowan, C. Lee	Athens.

Ligon, C. W. ----------Asheville, N. C.
Lott, Wm. W. ----------Jacksonville
Richardson, John M.----------Jefferson.
Scruggs, Richard L.----------Morven.
Stephenson, Mell M.----------Athens.
Taylor, Frederick B.----------Thomasville.
Van Roof Milton------ ---216 West 99th Street, New York, N. Y.
William, Willis B.----------331 Barnard Street, Savannah, Ga.
Worrell, Lloyd ----------Transvaal, Africa.

CORN CLUB BOYS' SHORT COURSE.

Adams, Cleveland ----------Mansfield.
Akins, Lewis----------Statesboro, R. F. D. No. 1.
Balcom, Ichabod Lafayette----------Georgetown, R. F. D. No. 1.
Boatright, Moses Watson ----------Blum.
Bolton, Byron ----------Zeigler.
Bradford, Leo----------Dublin, R. F. D. No. 4.
Bradley, Hubert----------Blaine, R. F. D. No. 2.
Bryant, Robert----------Chipley, R. F. D. No. 1.
Colquitt, Paul Allen----------Columbus, R. F. D. No. 1.
Finney, Henry Lawton ----------Haddock.
Fountain, Tom Lester----------Reynolds, R. F. D. No. 1.
Gay, Joseph Reid----------Mathews, R. F. D. No. 2.
Godbee, John----------Girard, R. F. D. No. 3.
Goddard, Early J.----------Griffin, R. F. D. No. 1.
Hearn, Caughey ----------Bellville.
Helton, Wm. Lee----------Toomsboro, R. F. D. No. 2.
Henderson, Paul----------Varnell, R. F. D. No. 2.
Hendricks, Joseph A.----------Buena Vista, R. F. D. No. 3.
Hill, Monroe----------Oglethorpe, R. F. D. No. 4.
Hogan, Rudolph----------Mystic, R. F. D. No. 1.
Hunt, Jesse R.----------Rome, R. F. D. No. 6.
Joiner, Charles----------Dublin, R. F. D. No. 5.
Jones, Roper----------Calhoun, R. F. D. No. 4.
Jones, Robt. C.----------Thunder, R. F. D. No. 1.
Lucas, J. Orin----------Quitman, R. F. D. No. 7.
Lynn, Raleigh B.----------Glennville, R. F. D. No. 3.
Marchant, Clarence----------Milan, R. F. D. No. 2.
Miller, Marshall G.----------Luthersville.
Nixon, Abner----------Carrollton, R. F. D. No. 6.
Pippen, Clarence----------Culloden, R. F. D. No. 1.
Pitts, Ernest ----------Bowman.
Reese, Clyde Bowdon----------Gentian, R. F. D. No. 1.
Rhodes, George Augustus----------Crawfordville, R. F. D. No. 1.

Smith, Charles Bryan	Rockmart, R. F. D. No. 2.
Wellborn, Edward G.	Madison, R. F. D. No. 4.

GIRLS' SHORT COURSE.

Andrews, Exabal	Watkinsville.
Atkins, Love	Summerville, R. F. D. No. 3.
Butler, Lily	Rome, R. F. D. No. 9.
Campbell, Ethel	Rockmart, R. F. D. No. 3.
Darcy, Lucile	Whigham.
Echols, Bernice	Jefferson.
Field, Lucile	West Rome, R. F. D. No. 8.
Hardeman, Louise	Winterville R. F. D. No. 2.
Kitchens, Annie	Dallas, R. F. D. No. 6.
Monroe, Jessie	Metcalf.
Rogers, Mary L.	Faceville.
Simms, Josephine	Rome, R. F. D. No. 6.
Wicker, Carrie	Andersonville, R. F. D. No. 1.
Wilson, Miriam	Eatonton, R. F. D. No. 1.

SENIOR LAW.

Aderhold, Thomas Lumpkin	Gainesville.
Allen, Marion Hendricks	Milledgeville.
Bray, Aubrey Oliver	Norwood.
Brock, Pope Furman, A.B.	Commerce.
Cauble, Mark Waverley	Atlanta.
Cheney, Patrick Mell, Jr., B.S.	Valdosta.
Clarke, Edward	West Plains, Mo.
Creekmore, Ross Addison, B.L.	Georgetown, Ky.
Cunningham, William Alexander, B.S.	Athens.
Deen, DeWitt Talmage	Waycross.
Dick, Samuel Kenney, B.S.	Atlanta.
Duke, Robert DeWitt	Newborn.
Gunnels, Charles William	Bronwood.
Hamilton, Hiles	Rome.
Hutchens, Harold Charles	Rome.
Lanier, Weylud Hudson	Metter.
Lumpkin, William Henry, Jr.	Cartersvile.
Lynch, James Montgomery	Florence, S. C.
MacKinnon, Donald Theodore	Atlanta.
Mann, William Azmer, A.B.	Milner.
Mills, Lewis Archibald, Jr.	Savannah.
Morris, John Brazie	Hartwell.
Newsom, Charles Henderson, A.B.	Eatonton.
Nicholson, Robert Marion	Watkinsville.

Raiford, Robert Sheldon	Atlanta.
Rogers, Henry Levy	Reidsville.
Russell, David Augustine	Carrollton.
Scarlett, Frank Muir, Jr.	Brunswick.
Singleton, Henry Tucker	Edison.
Skelton, Parke	Hartwell.
Spradlin, Eugene Franklin	Newnan.
Thomas, William Milton, A.B.	Athens.
Tolnas, Olaf Johann, A.B.	Brunswick.
VanDuzer, Albert Hodges, A.B.	Elberton.
Wallace, Roy William, A.B.	Rutledge.
Wood, Henry Grady, B.S.	Jasper.

JUNIOR LAW.

Adams, Virgil Emory	Marietta.
Adamson, Ernie	Carrollton.
Allen, Clyde Albert	Climax.
Anderson, Roy Stephens, A.B.	Danburg.
Arnett, William Luther	Odessa.
Avera, Wills Moses	Nashville.
Belser, Dana Collins, B.S.	Montgomery, Ala.
Bentley, Ernest Gilbert	Atlanta.
Bivens, William Patterson	West Durham, N. C.
Booth, John Lamar	Athens.
Boswell, Luther Hoyt	Greensboro.
Brewton, Simon Turner	Claxton.
Bryan, William LeGrand, A.B.	Wrightsville.
Cann, Samuel Adams	Savannah.
Carter, Frank	Atlanta.
Chappell, Bentley Hart	Columbus.
Cherry, Pou Dexter	Buena Vista.
Cocke, Isaac Perry	Dawson.
Covington, Leon Hoyt, A.B.	Cartersville.
Cowart, John Martin	Arlington.
Cumming, David Robert, A.M.	Griffin.
Daley, Walter Erle	Atlanta.
Davis, Carlton Carlisle	Covington.
Denham, William Bailey, Jr.	Augusta.
Edward, John Prior	Monroe.
Edwards, Theodore Campbell	Eastman.
Elliott, Chesley Vernon, A.B.	Augusta.
Flournoy, Walker Reynolds	Columbus.
Fluker, Lamar Jewell	Union Point.
Fuller, Hugh Nelson, B.S.	Atlanta.

Gannon, Hugh Mitchell	Savannah.
George, Calvin	Madison.
Gunn, Robert Russell	Crawfordville.
Humphries, John Oscar	Demorest.
Keiffer, Allen Napoleon, A.B.	Springfield.
Kieve, Jay Weiss	Albany.
Leard, Emil Watson, A.B.	Hartwell.
McDaniel, Walter Felix	Reynolds.
McDonald, John Edward	Cuthbert.
McDonald, Walter Raleigh	Augusta.
MacDonell, Alan Morris	Savannah.
Meadow, William King, A.B.	Elberton.
Miller, Francis Hamilton	Augusta.
Newbern, Jefferson Lamar, A.B.	Broxton.
Norton, Cleveland Hunter	Danville, Va.
Pace, Olin Stephen	Dawson.
Parker, Charles Orville	Waycross.
Peacock, David Roscoe	Eastman.
Pennington, Edgar Legare, A.B.	Madison.
Phillips, Fitzroy Donald	Meredith, Fla.
Roddenbery, John William	Thomasville.
Rosignol, Gilbert Rice, Jr.	Savannah.
Rountree, Ivey Washington	McLeod.
Russell, Henry Dozier, A.B.	McDonough.
Salley, Francis Walker	Augusta.
Semple, Edward Lowe	Key West, Fla.
Smith, Charles Street	Gainesville.
Sparks, Augustus Octavius Bacon, B.S.	Macon.
Teasley, Charles Jones	Hartwell.
Trotter, Edward Jung	Madison.
Vaughn, Clarence Rowland	Conyers.
Victor, Victor	Atlanta.
Young, James Wilson, A.B.	Blairsville.

SPECIAL LAW.

Gillen, Frederick Andrew	Maxeys.
Powell, Julian Grady	Lincolnton.
Schmidt, George Rupert	Augusta.

ELECTIVE LAW.

Strickland, Delcer Solomon	Buchanan.

SENIOR PHARMACY.

Butterly, Robert E.	Wrightsville.
Norman, Addison Lloyd	Norman Park.

Orr, Wilbur Adolphus	Washington.
Parrish, Henry Grady	Brooklet.
Rivera, Manuel	Pila, Loguna, P. I.

JUNIOR PHARMACY.

Brannen, Shell	Statesboro.
Frederick, James Loraine	Marshallville.
Freeman, Murray Elton	Doerun.
Gray, Frank Dorsey	Appling.
Hammett, James Frank	LaGrange.
Harmon, Howard Banks	Gainesville.
Hawkes, James Livingston	Winterville.
Martin, James Gordon	Eastman.
Wingate, James P.	Athens.

SPECIAL PHARMACY.

Murray, Robert Walker	Lumber City.

THE SUMMER SCHOOL.

Abney, H. F.	Athens.
Adair, S. B.	Bowman.
Agee, Mrs. J. L.	Augusta.
Amason, Ophelia	Point Peter.
Anderson, Ernest	North Augusta.
Anderson, Fannie Neal	Athens.
Anderson, P. R.	Athens.
Armstrong, M. Ella	Barnesville.
Arnold, E. S.	Mississippi.
Arnold, Mrs. John L.	Athens.
Avera, Harmon O.	Nashville.
Avery, Ora Hart	Athens.
Bailey, Eulalie	Nicholls.
Ballard, Enda	Dublin.
Ballard, Irene	Madison.
Barnette, Marelle	Auburn.
Barret, May	Athens.
Basinger, Mrs. T. G.	Athens.
Baugh, Ida	Athens.
Baughn, Mrs. Jessie	Athens.
Baughn, Marian	Athens.
Beatty, Frederika	Athens.
Beatty, Troy	Athens.
Becket, Nora	Savannah.
Bennett, Eloise	Jefferson.
Bird, Eula	Athens.

Bird, Lucy	Athens.
Blackman, N. R.	Plains.
Blasingame, Maggie	Monroe.
Bocock, Natalie	Athens.
Bocock, Mrs. W. H.	Athens.
Bondurant, Mrs. E. J.	Athens.
Boyd, Angie	Covington.
Bradbury, Ellie	Athens.
Brand, Julia Estelle	Athens.
Brandt, Mrs. Rudolph	Athens.
Branson, Edith	Athens.
Bray, Annie Laurie	Wrightsville.
Bray, Cleo	Wrightsville.
Bray, Geneva	Wrightsville.
Brinson, Ethel	Columbus.
Brinson, F. A.	Bartow.
Brooks, Ellen	Crawford.
Brown, Beulah	Union Point.
Bryan, Mrs. W. T.	Athens.
Burton, Lillie	Colbert.
Butler, Mary O.	Memphis, Tenn.
Caldwell, Elizabeth Kinloch	Athens.
Callahan, Marion	Greensboro.
Callahan, Sadie	Greensboro.
Callaway, Ida	Athens.
Carlton, Welborn C.	Auburn.
Carswell, Harriet M.	Hephzibah.
Carswell, J. Hamilton	Hephzibah.
Cates, Eunice M.	Augusta.
Chance, Lola May	Statesboro.
Childs, Mrs. W. L.	Athens.
Clark, Essie May	Athens.
Clark, E. P.	Athens.
Clarke, Mattie Lee	Malcom, Ky.
Cobb, Florrie	Smithville.
Cobb, Sarah	Athens.
Cofer, Stella	Tucker.
Cohen, Edward M.	Athens.
Coleman, George H.	Royston.
Collins, Annie	Bronwood.
Comer, Mrs. L. J.	Macon.
Conner, Mary	Cartersville.
Corless, Echo A.	LaGrange.
Crawford, Mrs. E. J.	Athens.
Cresswell, Mary E.	Athens.

Cumming, D. R.	Athens.
Daniels, Kella	Summit.
Daniels, Zola	Summit.
Davis, G.	Porterdale.
DeLoach, Julia Lee	Atlanta.
Downer, Henrietta	Athens.
Downer, Mattie	Athens.
Duggan, Annie Mae	Cadwell.
Duggan, Clara	Cadwell.
Duke, J. B.	Clarkston.
Dusenbury, Mary	Athens.
Edmondston, Nora L.	Savannah.
Elder, Laura	Athens.
Ellenwood, Henry McGinnis	Collins.
Etheridge, James Allen	Macon.
Evans, Sarah F.	Columbus.
Fan, Myrtie	Ben Hill.
Faust, Mrs. S. C.	Lexington.
Foster, J. H.	Monroe.
Fowler, Maude	Simpsonville, S. C.
Gerdine, Marion C.	Athens.
Gerdine, Mary E.	Athens.
Getzen, Nellie	Columbus.
Gibson, Clifford	Cedartown.
Gillon, Ruby	Athens.
Gillespie, Leon	Milner.
Ginn, Candler Marion	Royston.
Gowan, C. Lee	Athens.
Gregg, Anna DuBose	Florence, S. C.
Griffin, Eldee	Woodland.
Griffith, Lloyd	Athens.
Griggs, Mrs. E. L.	Athens.
Guffey, H. G.	Hidalgo, Ky.
Gurr, Georgia	Waverly Hall.
Hardy, Grace	Ben Hill.
Harris, Mary	Woodberry.
Harrison, Emily	Atlanta.
Hart, Charlotte	Athens.
Hartley, Annie Lou	Harrison.
Hendren, Mrs. L. L.	Athens.
Hines, Bertha	Helena.
Hinson, Margaret I.	Athens.
Hodgson, Edith	Athens.
Hodgson, Ruth P.	Athens.
Holloway, Rosa	Eatonton.

Holmes, Florence I.	Columbus.
Holmes, Victoria	Macon.
Hooper, Florence	Athens.
Hooper, Mrs. W. D.	Athens.
Hope, Nan	Jonesboro.
Hosch, Esther	Hoschton.
Hull, Leila May	Athens.
Hullihen, Ethel	Fitzgerald.
Humphrey, Mattie	Eastman.
Hunt, Fannie May	Phinizy.
Hutchison, Margaret	Greenwood, S. C.
Irwin, Nell C.	Dawson.
Ivy, Mamie	Lincolnton.
Janes, Helen	Cedartown.
Jenkins, Blanche	Sumner.
Johnson, Carrie	Cordele.
Jones, B. L.	Sylvester.
Jordan, Susie	Wrens.
Kendrick, Leila	Columbus.
Kennett, Alma	Canton.
Kenney, C. H.	Athens.
King, Kathryn	Fairburn.
King, May Allen	Dublin.
Lane, Ben B.	Brooklet.
Lane, E. Z.	Brooklet.
Lanier, Marie	Athens.
LeRoy, Rosa	Clay Hill.
Lewis, Annie P.	Sparta.
Lewis, Mary	Sparta.
Lewis, Rebecca	Montezuma.
Looper, Corinne	Gainesville.
Looper, Jessie Powell	Gainesville.
Lucas, Ludie	Waverly Hall
Lyndon, Mary D.	Athens.
Maddox, Rosa	Athens.
Mahone, Fannie Walton	Woodland.
Marshburn, J. H.	Waycross.
Martin, Beulah S.	Athens.
Matthews, Pearce R.	Perry.
Mattox, Hilda	Folkston.
Means, Cola	Yatesville.
Means, Hernie M.	Yatesville.
Melton, M. Tallulah	Verdery, S. C.
Merrill, Mrs. F. A.	Athens.
Mershon, J. A.	Gainesville.

Mobley, Mrs. Anna	Lumber City.
Monk, Elsie	Moultrie.
Moon, Mrs. A. H.	Baxley.
Morris, Ethel	Talbotton.
Muldrow, Jos. F., Jr.	Darlington, S. C.
McElreath, Lois	Athens.
McLeod, Pauline	Finleyson.
Macmurphy, K. A.	Augusta.
McPeek, Winifred	Alto.
Nelms, Lillie Mae	Sylvester.
Nelson, Henry E.	Spring Place.
Newbern, J. L.	Broxton.
Newsom, Charles Henderson	Eatonton.
Newton, Marion	Athens.
Nussman, George	Atlanta.
Owen, Lorene	Toccoa.
Paradise, Annie	Amity.
Parks, Mattie Elizabeth	Bowman.
Paschal, Nellie	Eatonton.
Patten, Lucile	Milltown.
Perry, Marvin B.	Machen.
Persons, Carl Phillips	Monticello.
Pfold, Martha	Columbus.
Philmon, Rochelle	Gainesville.
Philpot, Irene	Augusta.
Plowden, Rosa	Dickey.
Pond, Mrs. R. S.	Athens.
Proctor, Erna E.	Kirkwood.
Ragan, Mrs. Pearle	Leesburg.
Rawls, Ruby F.	Williamson.
Reed, Eunice	Athens.
Reed, Mrs. T. W.	Athens.
Reville, Clyde	Folkston.
Riley, R. R.	McEwen, Tenn.
Rivière, Marie	Athens.
Rivière, W. T.	Athens.
Robertson, Madge	Gainesville.
Rodgers, J. O.	Valdosta.
Rogers, J. Perry	Homeland.
Rogers, Minnie	Calhoun.
Rogers, Ruth	Athens.
Rushin, Myrtle	Buena Vista.
Russell, Marriah E.	Metcalf.
Sanford, S. V.	Athens.
Sappington, Florence	Yatesville.

Sessions, Lena	Tennille.
Sewell, Wilbur Stuart	Tennille.
Shewmake, Mrs. Mary Harris	Augusta.
Siddall, Nellie	Lumpkin.
Simmons, E. E.	Lenox.
Simpson, Irwin	Lumpkin.
Simpson, Sarah E.	Lumpkin.
Skinner, Mable	Fitzgerald.
Slaughter, Mrs. N. G.	Athens.
Smith, Albina	Kissimmee, Fla.
Smith, Elmira	Harrison.
Smith, Garland	Athens.
Smith, Louie H.	Athens.
Smith, Sophia	Tennille.
Smith, Willie	Harrison.
Snelling, Pinckney	Athens.
Snipes, Kate B.	Milledgeville.
Stanton, Susie	Devereux.
Stembridge, Marion W.	Milledgeville.
Stennis, Mary A.	
Stephenson, M. M.	Athens.
Stevenson, Allie M.	Sharpsburg.
Stewart, Fred	Athens.
Stewart, Mrs. Jos. S.	Athens.
Stewart, Kate	Columbus.
Stone, Charles Holmes	Athens.
Strahan, Mrs. C. M.	Athens.
Strang, C. J.	Shellman.
Summer, W. Y.	Sargent.
Talton, Martha	Kathleen.
Talton, Mary	Kathleen.
Taylor, Annie	Winona, Tex.
Taylor, Lola	Hartwell.
Thomason, Sarah	Columbus.
Thompson, Claudia	Swainsboro.
Tignor, Mary	Columbus.
Todd, Beulah	Augusta.
Tones, Arthur Rodney	Augusta.
Tones, Mrs. Arthur Rodney	Augusta.
Tutwiler, Agnes	Greensboro, Ala.
Tyler, L. V.	Ocilla.
Tyson, W. E.	Nashville.
Usher, George Ephraim	Jefferson.
Usry, Annie E.	Thomson.
Van Landingham, Mattie J.	Howard.

Vonderau, Marguerite L.	Athens.
Wade, Lucy A.	Demorest.
Walker, Bertie	Marshallville.
Walker, Pearl	Eastman.
Walton, Benton H.	Columbus.
Warr, Cliff W.	Dearing.
Warthen, Mrs. Dora	Madison.
Watkins, Emma	Talbotton.
Webb, Eunice	Gainesville.
West, Effie	Thomson.
West, Frances	Athens.
West, Henry H.	Athens.
Whatley, Lillie	Columbus.
White, Fannie	Homeland.
Wilbanks, Bertha	Royston.
Williams, Elizabeth	Metter.
Williams, Eulalia	Barnesville.
Wilson, Julia	Covington.
Wilson, Winnie Davis	Madison.
Womack, W. T.	Statesboro.
Womble, Mrs. G. R.	Moultrie.
Wood, Earle	Griswoldville.
Woodall, Mattie	Woodland.
Woods, Elizabeth	Athens.
Wootten, Sarah	Abbeville.
Wright, Mrs. H. C.	Athens.
Wynne, Marian	Waycross.
Young, James W.	Blairsville.
Young, Olivia	Newnan.

SUMMER COACHING SCHOOL.

Adair, S. B.	Bowman.
Arnold, H. M.	Monroe.
Brown, C. M.	Atlanta.
Broyles, E.	Atlanta.
Cutler, J. M.	Macon.
Dunlap, Edgar B.	Gainesville.
Fales, Ira	Douglas.
Florence, W. L.	Washington.
Ginn, C. M.	Royston.
Gossett, A. F.	Griffin.
Haygood, W. T.	Athens.
Hill, W. B.	Athens.
Holden, F. A.	Augusta.
Johnson, J. A.	Barwick.

Kelly, H. G.	Monticello.
King, P. J.	Stone Mountain.
Lew, T. T.	Wenchow, China.
Longino, J. C.	Newnan.
Maxwell, G. A.	Monte Sano.
Miller, F. O.	Athens.
Morgan, J. G.	Starrville.
McCarty, E. F.	Atlanta.
McGee, M. T.	Raymond.
McKellar, Ella	Americus.
McLean, J. H.	Douglas.
McWhorter, H.	Athens.
Nicholson, J. W.	Athens.
O'Farrell, J. C.	Athens.
Palmer, F.	Athens.
Price, W. P.	Farmington.
Proctor, L. G.	Atlanta.
Rey, Y. D.	Tampa, Fla.
Richbourg, W. A.	Hoschton.
Stewart, J. C.	Athens.
Stovall, Bessie	Gainesville.
Westbrook, A. S.	Commerce.
Westbrook, G. H.	Commerce.
Williford, J. A.	Commerce.

HIGH SCHOOL CONFERENCE.

Alfriend, K. T.	Macon.
Beaver, Sandy	Stone Mountain.
Carreker, H. B.	Warrenton.
Dendy, W. E.	Monroe.
Dickens, E. C. J.	Statesboro.
Edenfield, R. W.	Macon.
Elrod, L. F.	Commerce.
Emerson, W. H.	Atlanta.
Fullan, W. Thos.	Auburn, Ala.
Gardner, G. Holman	Atlanta.
Garrett, T. H.	Augusta.
Goddard, G. H.	Moultrie.
Gray, Claude	Locust Grove.
Harber, O. T.	Statesboro.
Holt, Elizabeth G.	Augusta.
Horton, R.	Milledgeville.
Hunt, H. H.	Powder Springs.
Jones, W. P.	Rome.

Langford, O. H.	Marietta.
Linton, Annie	Athens.
Maupin, C. A.	Columbus.
Maxwell, O. H.	Clarkesville.
Moon, A. H.	Baxley.
Newton, Ralph	Brunswick.
Peppler, C. W.	Oxford.
Purks, J. W.	Madison.
Richardson, J. M.	Montezuma.
Richardson, Mrs. J. M.	Montezuma.
Ricketson, J. E.	LaGrange.
Rowe, F. F.	Thomaston.
Smith, C. L.	LaGrange.
Stubbs, C. O.	Fairburn.
Walker, J. Henry	Monroe.
Woodberry, Rosa	Atlanta.

THE ROAD SCHOOL.

Appleby, A. C.	Jefferson.
Davis, J. D.	Ila.
Echols, J. H.	Covington.
Hanes, J. A.	Sylvester.
McDaniel, C. A.	Norcross.
Powell, T. W.	Athens.
Robertson, J. A.	Clarkesville.
Summerour, T. E.	Norcross.
Tribble, W. J.	Norcross.
Wimbish, E. A.	Macon.

SUMMARY OF REGISTRATION.

The Graduate School:		
Master of Arts Course	16	
Civil Engineering Course	1	
Master of Science Course	1	
Master of Science in Agriculture Course	6	
Not candidates for a degree	7	
		31
Franklin College:		
Bachelor of Arts Course	176	
Irregular Students	10	
Special Students	6	
		192
The State College:		
I. College of Science and Engineering:		
General B. S. Course	117	
B. S. in Civil Engineering Course	36	
B. S. in Architecture Course	2	
Irregular Students	28	
Special Students	6	
The Road School	10	
		199
II. College of Agriculture:		
M. S. in Agriculture	6	
B. S. in Agriculture Course	125	
One-Year Course in Agriculture	44	
Special Students	10	
The Cotton Grading School	16	
Short Courses	100	
Corn Club Boys Short Course	35	
Girls' Short Course	14	
	350	
Counted twice	2	
		348
The Law Department		103
The Pharmacy Department		15
The Summer School		353
		1,241
Counted twice		31
Total Registration		1,210

TABLES SHOWING DATA REQUIRED BY THE RESOLUTION OF THE GENERAL ASSEMBLY, APPROVED AUGUST 13, 1904.

Professions of parents of students in the University, 1912-13, so far as known:

Farmers	162
Physicians	27
Teachers	16
Lawyers	53
Ministers	4
Bankers	23
Government Officials (U. S. and State)	25
Real Estate	12
Railroad	10
Insurance	11
Manufacturing	24
Mechanics	7
Cotton Factors	19
Engineers	5
Journalists	5
Salesmen	7
Druggists	1
Merchants	130
Accountants	3
Brokers	5
Contractors	4
Printers	2

Professions or vocations of the alumni of the institution:

Physicians	183
Ministers	210
Engineers	103
Officers U. S. Army and Navy	102
Teachers	210
Farmers	734
Lawyers	1,223
In business	4,042
Total	6,807

SUMMARY OF STUDENTS IN THE UNIVERSITY SYSTEM.

In Franklin College	192	
In the College of Science and Engineering	199	
In the State College of Agriculture	348	
In the Graduate School	31	
In the Law Department	103	
In the Pharmacy Department	15	
In the Summer School	353	
	1241	
Counted twice	31	
		1210
The North Georgia Agricultural College (Dahlonega).		
In College Classes	111	
In Sub-Freshman Classes	124—	235
The School of Technology (Atlanta).		
In College Classes	548	
In Special Textile Classes	19	
In Apprentice Class	89	
In Night School	132	
In Summer School	113	
Special Architects	4	
Counted twice	100—	805
The Girls' Normal and Industrial College (Milledgeville).		
In College Classes	603	
In Training School	148—	751
The State Normal School (Athens)		
In Regular Diploma Classes	466	
In Review Courses	92	
In Correspondence Courses	59	
In Elementary School	181—	798
The Industrial College for Colored Youths, (Savannah).		
In College Department	26	
In Normal Department	202	
In Preparatory School and in Training School	297—	525
The Medical College (Augusta)		75
Total Number Receiving Instruction		4399

SUMMARY.

Students in College Degree Courses	1189
Students in Professional Courses	193
Students in Normal Courses	1422
Students in Short Courses and Special Courses	756
Students in Preparatory Courses	313
Students in Practice Schools (Elementary)	526
Total receiving instruction	4399
Less elementary students	526
	3873

LIST OF ACCREDITED SECONDARY SCHOOLS OF GEORGIA AS REPORTED APRIL 8, 1913.

Prepared by Joseph S. Stewart, Professor of Secondary Education, University of Georgia.

Schools are listed under the following groups:

Group I. Fully Accredited: Graduation on 15 accepted units as previously defined; four year high school; three or more teachers of academic subjects; not exceeding twenty-five hours of work per pupil; not exceeding average of thirty pupils per teacher; not exceeding six classes to the teacher; laboratory and library facilities sufficient to meet the needs of instruction in the subjects offered; spirit of school intellectual, wholesome; three-fourths of teachers college graduates; buildings, sanitary conditions satisfactory.

Group II. Accredited: Graduation on at least 14 accepted units as previously defined; four year high school; 2.5 teachers of academic subjects; not exceeding seven classes to the teacher; laboratory for demonstration in the sciences taught; library; other conditions as in Group I.

Group III. Partially Accredited: Graduation on at least 12 accepted units as previously defined; a three or four year high school; with at least two teachers of academic subjects; other conditions as in Group II.

Group IV. Recognized: Graduation on at least 10 units as previously defined; a three year high school; one and a half teachers for academic subjects, one of whom shall be college trained; other conditions as in Group III.

FOUR YEAR HIGH SCHOOLS.

Location and Schools.	Principal.
Albany High School, I	R. E. Smither.
Americus High School, I	C. C. Youmans.
Ashburn High School, II	C. H. Bishop.
Athens High School, I	E. B. Mell.
Atlanta:	
Boys High School, I	W. F. Dykes.
Girls High School, I	Jessie Muse.
Marist College, I (Private)	J. S. Rapier.
Peacock Fleet School, I (Private)	D. C. Peacock, and J. S. Fleet.
Technological High School, I	S. C. Culver.
Washington Seminary, I (Private)	L. D. Scott.
Woodberry School, I (Private)	Rosa Woodberry.

Auburn:	
Perry-Rainey Academy, III (Private)	W. C. Carlton.
Augusta:	
Richmond Academy, I	Geo. P. Butler.
Tubman High School, I	T. H. Garrett.
Summerville Academy, II (Private)	F. F. Sparks.
St. Joseph's Academy, III (Private)	Sisters Sacred Heart.
Barnesville:	
Gordon Institute, I	E. T. Holmes.
Bainbridge High School, II	J. F. Thomason.
Baxley High School, II	A. H. Moon.
Blakely High School, III	H. S. Bowden.
Boston High School, II	W. E. Nichols.
Bowman:	
Gibson-Mercer Institute, I (Private)	J. P. Cash.
Brunswick:	
Glynn Academy, I	J. N. Haddock.
Buena Vista High School, II	W. E. Drane.
Carrollton High School, II	H. D. Adams.
Cairo High School, II	G. C. Bowden.
Cartersville High School, II	H. L. Sewell.
Cedartown High School, II	J. E. Purks.
College Park:	
Georgia Military Academy, I (Private)	J. C. Woodward.
Columbus:	
High School, I	T. C. Kendrick.
Secondary Industrial School, II	C. A. Maupin.
Cochran:	
High School, III	L. H. Browning.
Commerce High School, III	H. B. Bible.
Cordele High School, I	W. R. Lanier.
Demorest:	
Piedmont Academy, I (Private)	J. C. Rogers
Dublin High School, I	N. G. Bartlett.
Eastman High School, II	N. W. Hurst.
Fitzgerald High School, I	H. B. Ritchie.
Gainesville:	
High School, II	J. A. Mershon.
Riverside Academy, I (Private)	F. L. McCoy.
Greensboro High School, II	H. B. Robertson.
Elberton High School, I	C. S. Dryden.
Harlem High School, III	R. D. Eadie.
Hartwell High School, III	C. G. Power.
Hephzibah High School, II	H. W. Sewell.
Jackson High School, II	W. P. Martin.

Jonesboro High School, II	J. R. Campbell.
LaGrange:	
High School, I	T. C. Polhill.
LaGrange Col. Academy, I (Private)	E. D. Hale.
Lavonia High School, III	J. T. Roberts.
Lawrenceville High School, III	H. H. Ezzard.
Locust Grove Institute, I (Private)	Claud Gray.
Macon:	
Gresham Academy, I	C. B. Chapman.
Lanier High School, II	C. B. Chapman.
Marietta High School, I	C. H. Langford.
McRae:	
South Georgia College, I (Private)	R. J. Strozier.
Menlo High School, III	W. M. Ransom.
Milledgeville:	
Georgia Military College, I	O. R. Horton.
McDonough High School, III	E. D. Gunby.
Monroe High School, III	W. E. Dendy.
Mount Vernon Institute, II (Private)	J. C. Brewton.
Mount Berry:	
The Berry School, I (Private)	R. H. Adams.
Moultrie High School, III	G. D. Godard.
Newnan High School, I	E. A. Armistead.
Norman Park Institute, II (Private)	W. H. McDaniel.
Ocilla High School, II	J. R. York.
Quitman High School, II	A. L. Brewer.
Rome:	
High School, I	W. P. Jones.
Darlington Academy, I (Private)	J. R. McCain.
Savannah:	
Chatham Academy, I	B. F. Pickett.
Benedictine College, I (Private)	F. Bernard.
Pape School, II (Private)	Nina Pape.
Senoia High School, II	Glenn Parrott.
Sparks Collegiate Institute, II (Private)	A. W. Rees.
Sparta High School, II	Albert Bell.
Stone Mountain:	
University School, I (Private)	Sandy Beaver.
Sandersville High School, III	W. T. Garrett.
Tennille High School, II	W. S. Sewell.
Thomson High School, II	N. E. Ware.
Thomasville High School, II	J. A. Duncan.
Thomaston:	
R. E. Lee Institute, I	F. F. Rowe.
Tifton High School, III	J. C. Scarboro.

Toccoa High School, II	J. S. Allman.
Vidalia High School, III	T. J. Ainsworth.
Vienna High School, III	A. F. Ware.
Villa Rica High School, III	O. R. Letford.
Warrenton High School, II	H. G. Carreker.
Washington High School, II	W. P. Henry.
Waycross High School, III	A. G. Miller.
West Point High School, II	W. P. Thomas.
Wrens High School, II	C. C. McCollum.
Winder High School, II	W. F. Huffaker.
Wrightsville:	
Warthen College, II (Private)	J. C. G. Brooks.

THREE YEAR HIGH SCOOLS, GROUP III.

Americus: 3rd Dist. Agricultural School	J. M. Collum.
Bartow High School	F. A. Brinson.
Barnesville: 6th Dist. Agricultural School	W. H. Maxwell.
Calhoun High School	T. C. Fills.
Carrollton: 4th Dist. Agricultural School	J. H. Melson.
Chipley High School	O. A. Hitson.
Clarkesville: 9th Dist. Agricultural School	M. C. Gay.
Conyers High School	L. O. Freeman.
Cornelia High School	R. O. Powell.
Covington High School	J. C. Upshaw.
Crawfordville: Stephens Institute	J. T. McGee.
Cuthbert High School	E. H. Hamby.
Dalton High School	T. S. Lucas.
Dawson High School	E. P. Moseley.
Douglasville High School	A. H. Stephen.
Douglas: 11th Dist. Agricultural School	C. W. Davis.
Eatonton High School	J. B. Dukes.
Fairburn High School	C. O. Stubbs.
Forsyth High School	L. W. Mosley.
Fort Valley: Grady Institute	Ralph Newton.
Granite Hill: 10th Dist. Agricultural School	Geo. White, Jr.
Hawkinsville High School	H. D. Knowles.
Jefferson: Martin Institute	C. A. Sydnor.
Lumpkin High School	W. D. Reid.
Lyons High School	R. M. Monts.
Madison:	
High School	J. H. Purks.
8th Dist. Agricultural School	W. G. Acree.
Marshallville High School	D. H. Perryman.
Monroe: 5th Dist. Agricultural School	J. H. Walker.
Montezuma High School	T. E. Betts.

Nashville High School	F. M. Hunter.
Pelham High School	T. H. Wilkinson.
Perry High School	P. R. Matthews.
Powder Springs: 7th Dist. Agri. School	H. R. Hunt.
Reynolds High School	W. M. Parker.
Sandersville High School	W. T. Garrett.
Shellman High School	S. C. Haddock.
Social Circle High School	J. T. Lowe.
Statesboro:	
High School	G. E. Usher.
1st Dist. Agricultural School	E. C. J. Dickens.
Swainsboro High School	Ira York.
Sylvania High School	J. C. Langston.
Sylvester High School	J. M. Richardson.
Tallapoosa High School	S. J. Smith.
Tifton: 2nd Dist. Agricultural School	J. F. Hart.
Valdosta High School	W. O. Roberts.
Waynesboro High School	M. C. Allen.

Three Year High Schools in Group IV, Recognized:

Abbeville High School	A. H. Wyatt.
Adel High School	W. D. Greene.
Buford High School	W. N. Nunn.
Brooklet High School	P. F. Duggan.
Carnesville High School	J. C. Hall.
Comer High School	J. W. Marion.
Dallas High School	C. G. Payne.
Fort Gaines High School	J. B. Jackson.
Girard High School	W. B. Lovett.
Jesup High School	C. R. McWhorter.
Hazlehurst High School	B. H. Johnston.
LaFayette High School	W. E. Mitchell.
Lithonia High School	W. M. Rainey.
Louisville High School	Van Fletcher.
Monticello High School	E. N. Reynolds.
Palmetto High School	L. A. Page.
Plains High School	N. R. Blackman.
Pavo High School	Bruce Ray.
Royston High School	G. H. Coleman.
Rutledge High School	H. L. Brock.
Rochelle High School	J. C. Estes.
Summit High School	E. L. Tappan.

THE UNIVERSITY OF GEORGIA

The complete organization of the University of Georgia is as follows:

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NORTH GEORGIA
AGRICULTURAL COLLEGE

DAHLONEGA, GA.

CALENDAR, 1913-1914.

Fall Term begins	September 3, 1913.
Entrance Examinations	September 3-4.
National Thanksgiving	November 27.
Christmas Holidays	December 19 until January 6, 1914.
Fall Term ends	December 31.
Spring Term begins	January 1, 1914.
Lee's Birthday	January 19.
Field Day	April 1.
Decoration Day	April 26.
Commencement Sermon	Sunday, May 31.
Annual Meeting of Board of Trustees	Monday, June 1.
Commencement Day	Wednesday, June 3.

BOARD OF TRUSTEES.

W. B. McCANTS, President	Winder.
D. L. COOK	Dahlonega.
R. H. BAKER, Secretary	Dahlonega.
R. C. MEADERS	Dahlonega.
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HOWARD THOMPSON	Gainesville.
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FACULTY AND OFFICERS

1912-1913.

DAVID C. BARROW, LL.D., Chancellor of the University.

GUSTAVUS R. GLENN, A.M., LL.D., President.

BENJAMIN P. GAILLARD, A.M., Vice-President, Professor of Chemistry, Physics, Geology.

ELIAS B. VICKERY, A.M., Secretary, Professor of Latin Language and Literature.

GEORGE W. CAMP, A.B., A.M., Master's Diploma, Sec. Ed., Professor of English Language and Literature, also Philosophy and Education.

J. C. BARNES, B.S., Professor of Mathematics and Astronomy.

J. G. WOODRUFF, B. Agr., Professor of Agriculture.

E. L. FLOYD, Professor of History and Economics.

BERNARD C. ANSTED, B.B.S., Professor of French and Business Science.

F. ANGELBERG, Professor of German and Director of Band.

BYRON J. SNYDER, B.S., Met.E., Professor of Electrical and Mining Engineering.

W. L. ASH, A.B., Assistant Professor of English.

——————, Assistant Professor of Mathematics.

MRS. IDA THOMASON, Domestic Science.

MISS GEORGEANA PEET, B.O., Professor Elocution.

S. A. HARRIS, First Lieut, 14th Infantry, U. S. A., Professor Military Science and Tactics, and Commandant of Cadets.

MISS OLA HEAD, Librarian.

HOMER HEAD, M.D., College Surgeon.

GENERAL INFORMATION.

ORIGIN AND PURPOSE OF THE COLLEGE.

This College owes its origin to the Act of Congress of July 2, 1862, entitled "An Act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and mechanic arts." The Act contemplates the "endowment support and maintenance of at least one college, where the leading object will be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts in such manner as the legislature of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes."

The fund having been received by the State, the interest of it was placed under the control of the Trustees of the University by which the North Georgia Agricultural College became a department of the University, the title of the above property being conveyed to the Trustees of the University on the conditions specified in the donation, the Trustees of the University appointing the President of the College, making a certain allowance for its support, to-wit: $2,000 annually, and exercising over it a general supervision.

LOCATION.

The College is located twenty-five miles north of Gainesville, at the foot-hills of the Blue Ridge Mountains. It is almost surrounded by a mountain range. The city of Dahlonega is on a plateau, sixteen hundred feet above the sea level. The air and water have the proverbial purity of a mountain climate. The town is unusually free from bad influences of every kind. The ordinary vices of city life, and city environment are unknown in these "everlasting hills." When the psalmist said, "I will lift up mine eyes unto the hills from whence cometh my help," he uttered a pedagogical, as well as a spiritual truth, which only those who have felt the presence of the mountains can comprehend. The big men of the world have nearly always come from the hill country, or at some time in their earlier life, they have drawn their inspiration and dreamed their potential dreams, under the silent shadow of the mountain peaks. All of the hills about us are rich in gold, and every foot of land upon which a boy treads here contains finely divided particles of the precious yellow dust. But when a boy climbs to the top of one of these tall peaks and stands underneath a canopy of the bending heavens, and strains his vision over a limitless landscape, where men toil in the field, and where towering smoke-stacks rise over groups of men who labor in the shop, the boy cannot help dreaming long, long dreams about the part he is to play, sometime and somewhere in the future, in the drama of life. William G. McAdoo, as a silent, quiet boy, on the top of Kennesaw Mountain, dreamed big dreams of masterful achievements, long years before he pushed the steel tunnel under the bed of the Hudson river. Thoughtful students of successful men, the world over, have recognized the contributory value of the silent majesty of the mountains in awakening big things in the life of a boy.

TRANSPORTATION TO DAHLONEGA.

Up to the present time, we have been dependent upon hack, and surreys, over a country road for the transportation of our students from Gainesville. Within recent months a company has been organized known as the Dahlonega & Gainesville Transportation Co., for the purpose of building an automobile line between the two points. Those who are in charge of this enterprise expect to have the line completed during the early summer of this year. With the completion of this line our students can be brought over from Gainesville with much more comfort and much less expense than we have had hitherto. Capitalists with large means have recently purchased a number of the rich mineral and timber lands around Dahlonega, and the promise of better transportation is almost assured.

COLLEGE GROUNDS AND BUILDINGS.

The College campus and farm consists of forty acres, beautifully located and well situated for college purposes. The main college building is located on a high knoll overlooking the town. In front is a pretty lawn gently sloping toward the center of town. In the rear are located the drill grounds, the athletic field, and the college farm, all conveniently situated, and afford ample space for the purpose for which they are used.

The main building which stands on the exact site of the old United States mint, contains twelve lecture rooms and offices, the college chapel, armory, and the two literary society halls. Each of these contains suitable furniture and apparatus. In the basement are located the Business Department, the office and orderly room of the Military Department. On the first floor are the Departments of English, History, Ancient Languages, Pure Mathematics, and French and Art.

To the right of the main building is located Bostwick Hall, the gift of Mr. J. H. Bostwick, of New York. This building was completed in 1899 and was destroyed by fire October, 1912.

Next beyond Bostwick Hall is situated "the old Dormitory," which contains the office of the Superintendent of Barracks and comfortably furnished rooms for about fifty students.

To the rear of this is the new dormitory which was completed in 1907. This building is steam-heated and electric lighted, and contains well arranged and comfortably furnished rooms for about one hundred students.

The Mining Department occupies a temporary building across the drill field from the main building. In this building are the office, lecture room, drafting room, mining laboratory, assaying laboratory, and shop of this department. This building is not pretentious but on visiting this department one can not fail to be impressed with the great importance of the work done here.

A NEW INDUSTRIAL BUILDING.

The last Legislature appropriated twenty-five thousand dollars for the erection and equipment of a new Industrial building. This building is now under construction and will be completed and equipped for occupancy by the first of September. The building will be three stories high, sixty feet wide, and a hundred twenty feet long. The departments of Mining and Electrical Engineering, Agriculture and Chemistry, will be housed in this building. The efficiency of all of these departments will be greatly increased by the installation of the machinery and the appliances necessary for effective teaching in these departments.

It is our purpose to provide in this building, opportunity for every student to do some kind of industrial work. More than ever, the world's work will be done by machinery, and every young boy shauld have such knowledge of mechanics, and machine work, as will enable him to master the machine, whenever it becomes necessary. An intelligent observer recently stated, in a meeting of school suprintendents: "The greatest waste in education is not bad teaching, but teaching things the twentieth century does not need." Certainly we have reached the time when every young man should have an efficient industrial equipment for any industrial vocation that he may expect to pursue. By a knowledge and use of tools, many a boy can be saved and trained for useful life, who would otherwise go to the bad.

A NEW AUDITORIUM.

In October of last year, we lost, by fire, one of our buildings known as Bostwick Hall. The State had only a small amount of insurance on the building. We shall ask the next Legislature for an appropriation sufficient to replace this building. Our hope is that we can secure enough money to build a new auditorium and library on the site of this burned building. The old building was the gift of Mr. J. H. Bostwick, of New York. Every committee appointed by the Legislature in recent years to visit the institution has seen the need of a new auditorium, and we are all hoping that the new Legislative committee will urge a sufficient appropriation for a new auditorium and library building on the site of the Bostwick Hall.

THE COLLEGE LIBRARY.

The students have the use of a carefully selected library under the general supervision of a committee from the faculty, with a librarian regularly in charge. Nearly all the books have been chosen especially for the students, and new purchases are made twice a year from a fund appropriated for this purpose. A liberal selection of the best current literature, and the leading daily papers of the State are available to the students in the reading room. A complete card catalogue and an index to periodical literature enables students to use the books and bound volumes of magazines to the greatest advantage. The library is also a depository for the publications of the United States Government. Specially chosen department libraries are being accumulated for the use of students in parallel reading and investigation.

ELECTION OF STUDIES.

A. B., B. S., and B. Ph. students above Sophomore class will be allowed to select their studies, so far as the schedule of recitations will permit, after consultation with a special committee appointed from those members of the faculty with whom the work of these courses is done, the decision of that committee being subject to other regulations regarding irregular courses.

THE DORMITORIES.

The dormitories on the College grounds will accommodate 150 students. Each dormitory is under the immediate supervision of resident members of the faculty, thus securing personal attention to the needs of the students that can be brought about satisfactorily in no other manner.

The system of discipline employed in the dormitories is, as it is throughout the College, military in its nature, but so arranged as to give to each student all the liberty warranted by continued good conduct and high class standing.

All male students, except those who live here and those who are able to make more economical arrangements elsewhere, are required to live in the dormitories.

ROOM FURNISHINGS.

Students will furnish toilet articles, bed-clothing and pillow. Board will be $10.00 per month of four weeks, payable in advance. This will include electric lights.

It is recommended that cadets express or ship all articles needed in rooms, such as cover, pillow, etc., at least one week before they expect to arrive in Dahlonega. These articles should be directed to the Superintendent of Barracks, Dahlonega, Ga., (via Gainesville).

When this course is followed out the cadet will find the articles placed in his room on arrival, thus obviating the inconvenience due to delays occasioned by not receiving trunks promptly.

The general control of the dormitories is vested in the President and Faculty, who will make and enforce such rules as may appear necessary to secure the best results.

EXPENSE.

Breakage Deposit	$ 2.50
Incidental Fee (per year)	10.00
Books and Stationery (per year)	15.00
Washing, about (per year)	10.00
Library Fee (per year)	2.00
Dormitory Board, about (per year)	100.00
Typewriting Fee (per year)	6.00
Chemistry Fee (per year)	4.00
Blue cap, blue blouse, grey trousers and black shoes	18.75
Two pairs white duck trousers	2.50
Service cap, blouse, trousers, and tan shoes	18.25
One pair leggings	.65
White belt, and half dozen pairs of white gloves	1.75
One-half dozen standing collars	.75
Olive drab shirts	1.50
Biological Fee (per year)	2.00
Quantitative Chemistry Fee (per year)	6.00
Soil Physics Fee (per year)	2.00

Students entering College January 6th, the beginning of the Spring Term, are required to pay only a proportional part of the above mentioned expenses.

When no damage to College property is charged against a cadet, the breakage fees will be returned at the end of the school year.

Annual expenses are made as economical as possible, and will run from $150.00 to $175.00. When students bring their supplies from home, expenses can be reduced to an amount not exceeding $80.00.

The expenses of the first month of the term include nearly all but the monthly board and washing, and amount to nearly $60.00. In order that a student shall start promptly and efficiently in his class, provision should be made for this.

A student bringing the appointment by his county school commissioner, representative, or senator, will be allowed a credit of $2.50 on his incidental fee, for the term for which he is appointed, thus making matriculation fee $2.50 per term. This certificate must be presented on entering college.

The estimate does not include traveling expenses to and from College. Stage fare from Gainesville to Dahlonega is $1.50 for each person and 50 cents for each trunk. Pocket-money depends on individual wishes, but should be moderate.

The special fees are charged only to those who take a particular subject and are intended to cover merely the cost of material.

Some expenses that can not be foreseen, will necessarily occur, but parents and students can feel assured that so far as the College is concerned, everything will be managed on the most economical basis.

THE CHARLES McDONALD BROWN FUND.

From the Charles McDonald Brown Scholarship Fund the institution receives $1,170.00 annually. This is to aid worthy young men who are unable to pay their way through college. The applicant must be at least eighteen years of age, in good health, and must reside in one of the following counties: Rabun, Habersham, Towns, Union, Fannin, Dawson, Murray, White, Lumpkin, Gilmer, Pickens, Cherokee and Forsyth in Georgia, and Oconee, Anderson, and Pickens, in South Carolina.

This sum will be divided into sixteen equal parts allowing one part to each county. It is the purpose of the bequest to aid one young man from each of the counties above named. All applications must be sent to the Chairman of the Brown Fund Committee on or before September 1st of each collegiate year.

LITERARY SOCIETIES.

There is no part of the college course more valuable than the training derived from taking an active part in a good literary society. It is here that one learns to think and speak while standing, and to grapple with his antagonist in a mental contest.

There are two well organized literary societies, the Decora Palaestra and the Phi Mu. These society furnish unexcelled opportunities to students ,who wish to develop and improve themselves in Elocution, Composition and Debate. These societies meet each Monday for debate and for such other exercises as come in that line.

Joint debates between these societies are held at intervals during the term. The Champion Debate is held during Commencement week and forms an important part of these exercises.

One or more intercollegiate debates will be arranged for during the year.

The drill in the use of Parliamentary Law is an important feature of society work, for nowhere can parliamentary usages be so well learned as in ,well regulated debate.

These societies are valuable auxiliaries to the Department of English and to the literary culture of each of their members, and are so recognized.

MISCELLANEOUS.

Students, on arriving, must immediately report at the dormitories and must at once consult the President about arrangements for board and for directions about registration.

The discipline of the College is under the immediate direction of the Commandant of Cadets. Serious offenses against good order are passed upon by the entire faculty.

The Fall Term begins always on the first Wednesday in September, and the Spring Term ends the first Wednesday in June.

During the last session we had students from about seventy counties in Georgia. Almost without exception students who spend a year here are greatly improved in health. We have "plain living and high thinking" in the mountains. We encourage athletic sports, but do not allow them to conflict with the students' academic work. The average gain in weight for the past year is about 20 pounds.

The average age of a male student is over eighteen years, and a large majority are young men defraying their own expenses. This is not the school for idleness and frivolity, for fun and dissipation; but manly sports, innocent pleasures, regular physical training for all, hard study and excellence in character are the requisites for all who remain here.

Y. M. C. A.

Possibly the most powerful organization in college, and one that can accomplish most for the students, is the Young Men's Christian Association. Although recently organized, its plans are well developed, and the students are very enthusiastic in the hope of accomplishing great results. A majority of the students are enrolled, and our strong local organization is already affiliated with the national Y. M. C. A. movement. Regular devotional meetings are held weekly, and study classes are open to all those desiring a more thorough knowledge of the Bible and Mission Work. Plans are on foot for the erection of a Y. M. C. A. building for Dahlonega, and the outlook for the success of the movement is very promising. All students are urged to become members of this splendid organization and get the benefit of a system of training that has as its one aim the development of physical, mental, and spiritual manhood.

SPECIAL ADVANTAGES AT THIS INSTITUTION.

1. There is no finer climate in the world than we have at the foot-hills of the Blue Ridge Mountains.
2. Complete isolation from the diversions of a noisy and distracting city life.
3. The regular and the orderly life that a boy lives here is conducive to the formation of habits that will make him regular and orderly in after life.
4. Everybody is taught here that he must depend upon himself, and that he must first learn how to obey before he can learn to command.
5. The military training that a boy gets here makes him observant, accurate, prompt, and reliable.

6. In addition to the A. B. and the B. S. Courses, we have full courses in Agriculture, Mining, Engineering and Business.

7. Our boys live in our own dormitories, where they are under the immediate control of our own officers all the time.

8. All of the expenses for a year here, including board, fuel, lights, washing, clothing, books, fees, etc., can be covered by the expenditure of from $150.00 to $175.00.

ADMISSION REQUIREMENTS.

The fourteen units standard has been adopted for entrance into the Freshman class of the North Georgia Agricultural College and is now in force. By a unit is meant the study of one high school subject for not less than thirty-six weeks, four recitation periods per week, and each recitation period not less than forty minutes. The requirement also means that at least the 7th grade of the grammar school must be completed before the high school or prep work is begun; and that not more than four units of work can be done within one year.

Students are admitted into the Freshman class on a satisfactory examination in subjects enumerated in the "college entrance requirements" or on the presentation of a properly filled out certificate from an "accredited high school" as classified by the University of Georgia.

In view of the dormitory system of boarding and the military system of discipline no student under fifteen years of age will be admitted except under the care of parents or relatives residing in the community.

All entrance examinations will be held during the first two days of the term as indicated by the calendar.

DEPARTMENT OF DOMESTIC ARTS AND SCIENCE.

MRS. IDA THOMASON.

"That education is best suited to the individual which fits him to his environment, and makes him master of it." The well educated person is one thoroughly equipped for his or her life work. Woman's true mission and work in life is home-making.

Deeply implanted in the nature of every normal young woman is a desire to create and maintain an attractive and well ordered home: one that shall contribute materially to the efficiency and well being of its inmates. To train and develop this most worthy and natural instinct, is the purpose of the Department of Domestic Ats and Science.

House-keeping should be regarded as a profession, calling for definite training. Every young woman needs a theoretical and practical knowledge of the scientific principles underlying healthful cooking, efficient home management and sanitary living. Thus the homely every day tasks will be lifted above the mire of drudgery and become interesting and attractive.

This subject, by reason of its many sides, calls for intelligent study and research, and is therefore profitable, not only for its practical work, but for its educative value as well.

The work in this department is arranged under two heads, Domestic Science and Domestic Arts.

A fee of $1.00 per term is required in Domestic Science to cover cost of supplies for practical work.

No fee is required in Domestic Art, but student will furnish material for sewing.

DEPARTMENT OF BUSINESS ADMINISTRATION.

BERNARD C. ANSTED, B.B.S., (London, Atlanta), Professor.

The various subjects offered in this department are based on those considered as full units at Harvard, Yale and Cornell Universities, therein differing entirely in scope from the superficial work done at so-called, business colleges.

Modern conditions exact, in addition to the ordinary equipment of the average bookkeeper, typist or office stenographer, initiative and technical ability combined with first-class college training. This essential combination is happily secured here, where the graduate from the department enters the business world a college-bred man, after thoroughly comprehensive and scientific instruction extending over a period of four college years.

Graduates of this department are always in active demand, and command excellent salaries from the start.

ACCOUNTING.

This branch of commercial education is divided into two main divisions—Bookkeeping proper or Pure Accounting, and Auditing or Higher Accounting.

In Bookkeeping, thoroughly practical training is given in the use of the Journal, Ledger, Cash Book, Sales Book, Invoice Book, Special Column and Loose-Leaf devices of every description, as employed in the most up-to-date business concerns. Partnership and Corporation accounting is carefully studied, the work familiarizing the pupil with the best methods and labor-saving features endorsed by accountants of national standing. The latest and most practical additions to accounting knowledge are always carefully and thoroughly embodied in the course, insuring an up-to-date expertness in every branch of the accountant's art. The course aims more especially to equip expert accountants capable of making valuable suggestions for the betterment of any accounting system under their charge, thus placing that department of the business on the soundest footing, and demonstrating their value to their employers from an economic standpoint.

THE COURSE IN SHORTHAND.

We have two courses in this branch of the Business Science Department. The Amanuensis Course, and the Reporting Course. The former leads to a Certificate of Proficiency as Secretary and Amanuensis, which is awarded on completion of the work of the Sophomore year,—the latter to the conferring of the Bachelor of Business Science Degree upon graduation at the end of the Senior year.

Certificated stenographers are efficient office men, capable of handling any correspondence, as well as being thoroughly expert in every form of vertical and horizontal filing, the use of the Dictaphone, Railway letter-press copying, Mimeograph work, Indexing, etc.

The Reporters' Course equips the graduate with the ability to undertake Court Reporting, etc., one of the tests required being the reporting and transcription in proper form, of a felony case at the Spring term of Lumpkin Superior Court, also the successful reporting of the Judge's Charge to the Jury, at said term of court.

THE TYPEWRITING COURSE.

"Touch Typewriting" is absolutely insisted upon throughout the course, and none but perfect work is accepted.

Every variety of typewriting work is demonstrated and required to be familiarized by the student. The Typewriting Department is equipped ,with modern appliances. We have the Dictaphone, from which dictation is taken in shorthand and directly to the typewriter. The different methods of filing letters and business documents, of making letter-press copies, Mimeograph duplicating work, and other features of office routine are carefully demonstrated, enabling pupils with confidence to accept responsible and well paid positions upon graduation. Upon receipt of his B.B.S. Diploma the graduate is an expert stenographer, experienced in office work, as well as a practical and highly trained accountant.

DEPARTMENT OF AGRICULTURE.

J. G. WOODRUFF, Director.

HENLEY WIMPEY, Supt. Farm.

Aim and Object.

The Department of Agriculture in the N. G. A. College stands for thorough training in practical science as relates to the various phases of Agriculture. Its aim is to send out young men fitted by their training to take a leading part in the development of Agricultural resources of the state; to become scientific farmers and horticulturists, prepared to make two blades of grass grow where one grew before; men fitted not only to meet demands made upon them, but to create such demands by pointing out the way to progress and development.

THE FIELD OF THE SCHOOL.

The field of Science of Agriculture is large. The progress of modern science has created new professions, and changed the old ones, until they are beyond recognition. The humble pursuits of the past have been dignified by the concentration of the mind of man upon them, until, today, they rank with the professions of a generation ago. Our country offers today unlimited demand for men and women who have made themselves professional workers in the various phases of Agriculture. The development of agriculture has made the possibilities of the soil so profitable and pleasant that a great portion of the most intelligent people of the land are looking toward scientific agriculture as a profession for themselves and their children. The college of Agriculture believes in the education that fits for life; that trains the head, heart and hand.

Possibilities in Agriculture.

The present day learning has created several new professions. One of them is agriculture. Science has been applied to agriculture and its various branches until soils and plants and animals can be made to do the will of the trained farmer. Agricultural education is sweeping the entire country. Congress and the State Legislature are helping it on. The development of agriculture will make it possible for every man and woman who follows farming to make a handsome income, and at the same time live a helpful and happy life. The farm used to boss the man, but now the man bosses the farm if he has acquired sufficient knowledge. The only serious drawback to the onward march of modern agriculture is the lack of trained workers. The government is calling for more agricultural experts than the country can produce. Every state demands teachers for its high schools. The District Agricultural Schools want teachers of agriculture. The Agricultural colleges are clamoring for more help. The Philippines are taking a great number of agricultural men. Foreign countries are sending for them. There is room in Georgia alone for scores of young men at first-class salaries to act in responsible positions. Agriculture is not a crowded profession, and the demand for agricultural experts far exceeds the graduates of agriculture.

Equipment.

The Agricultural Department will be located on the second floor in the west wing of the new industrial building. It will have for its use a lecture room, an agronomy laboratory, an animal husbandry laboratory and a dairy laboratory, stock room, and the professor's office. The laboratories will be equipped with modern and up-to-date apparatus and materials.

EXPERIMENTAL FARM.

Adjoining the college campus is a thirty-acre experimental farm under a high state of cultivation. The farm is divided into plats and a great variety of seed are grown for experimental purposes. The results are published for the benefit of the farmers.

Ample room is provided for the college herd of live stock which is used in connection with the study of animal husbandry.

DEGREES AND CERTIFICATES.

In order to meet the needs of all young men who desire instruction in agriculture three distinct courses are given.

(a) A four-year course which leads to the degree of Bachelor of Science in Agriculture. This course is designed to give a training which is thoroughly practical as well as scientific. The greater portion of the work in agriculture is done in the last two years of this course.

(b) The two-year course is similar to the first two years of the four-year course except that in the second year additional work in agriculture and horticulture is substituted for English and mathematics. Those who complete this work will be given a certificate.

(c) To meet the needs of men of mature years, who are busy on the farm the greater portion of the year, and for the benefit of young men who desire to become better farmers and who feel that they cannot take one of the regular courses in agriculture, a short course has been arranged beginning the first Monday in January and closing the second Friday in March.

LIBRARY.

The College of Agriculture has a well equipped library in which are kept all government bulletins and publications, reference books and the leading agricultural magazines and papers of the U. S.

It is believed that the contact with the books and magazines found in the library is worth a great deal and arouse a desire to know more than books contain. Agricultural students are required to do work in both agricultural library and the college libray.

DEPARTMENT OF MINING ENGINEERING.

BYRON J. SNYDER, Director.

ARTICLE I—ANNOUNCEMENT.

1. The School of Mines of the North Georgia Agricultural College has been established primarily for the purpose of giving a thorough scientific education, both practical and theoretical, to men studying for the profession of the mining and metallurgical engineer, the assayer, the consulting geologist. The desire is to train men to take more active part in the winning of the mineral wealth of the state and nation.

Last June the Legislature of the State of Georgia appropriated $25,000 for a building to be used principally by this department.

This building will be ready for occupancy September, 1913, and will be equipped in the most modern manner with mining, metallurgical, chemical and manual training apparatus.

It is to be one of the best equipped buildings in the state.

This will make it possible for the School of Mines of this college to offer a more thorough and complete course in metallurgy, mining, assaying, manual training, etc.

2. **Situation.**—Dahlonega is most fortunate as the seat of a mining school. It is situated in the heart of the great gold belt. Within a few hundred yards of the school is situated the fifty stamp mill of the Crown Mountain Gold Mining Co., whose works are always accessible to students of the School of Mines. To the east within walking distance is the plant of the Consolidated Gold Mining Co., a fine example of an up-to-date one hundred and twenty stamp mill. It has in connection an Edwards roasting furnace of a capacity large enough to handle the concentrates from more than 36 vanners. By courtesy of the management the students have access to all these plants.

3. **Environment.**—The nearer a School of Mines is to a neighborhood of mining, the nearer such a school is to the atmosphere of mining operations, the more potent we find its influence. Nature herself could not have selected a spot more suitable for a mining school than Dahlonega. Dr. Glenn and the Trustees of the North Georgia Agricultural College have been keenly alert to the existing environment which harmonizes with the work of the mining student both present and future. The mineral possibilities of the country in and around Dahlonega and especially to the north are very great. Rare opportunities are here offered to the student of mineralogy and geology. Rocks of various geologic age are here extremely well represented and economic deposits of many rare and valuable minerals exist in varied form.

4. **Instruction.**—The method of instruction includes lecture, textbook, laboratory and recitation work.

The metallurigcal laboratory equipment is especially good, consisting of muffle and wind furnaces, jaw and gyratory crushers, samplers, classifiers, gold and silver balances, etc. The course in Assaying and all Metallurgy is especially strong.

5. **Minerals.**—A working and a museum collection of hundreds of specimens gathered from home and abroad makes the department of mineralogy extremely interesting.

6. **Drawing.**—Mechanical Drawing as applied to all the phases of engineering receives our close attention. The drawing department is well equipped. This work is second to none in the state.

7. **Resume.**—With all these advantages we feel justly proud and can conservatively proclaim The School of Mines of The North

Georgia Agricultural College as offering advantages for the study of Mine Engineering as are rarely met with at any one place.

ARTICLE II—REQUIREMENTS FOR ADMISSION.

1. The classes in the School of Mining are open to all who are proceeding to a diploma or a degree. Students are required to pass the Matriculation Examination or an equivalent thereto, and must follow the courses as hereafter mentioned.

2. **Registration.**—All students are required to show their entrance tickets and paid up laboratory fees before they will be registered for work in this course.

3. **Admission by Examination.**—Students who desire to become candidates for a degree are admitted on examination in the subjects required by college.

4. **Admission by Diploma.**—Candidates who are graduates of the proper course of a high school, the grade of whose work is on a par with that of this institution, will be admitted upon presentation of diploma.

5. **Admission to Advanced Standing.**—Graduates of approved colleges are admitted upon presentation of their diplomas or certificates of graduation.

6. **Special Arrangements.**—In many cases persons who have been engaged in practical work and desire to better their condition by systematic training and who are not candidates for a degree may be permitted to take special studies. Such men often prove to be among the best students, since they realize clearly the purpose of their work and the value of time.

7. **Attendance.**—Students are required to attend 80 per cent of class lectures before permission will be given to write on examinations, and 80 per cent of laboratory hours before work will be certified. Exemption from this rule can be obtained only on application to the faculty.

8. **Course.**—All students must take the subjects required in their courses in conformity with the calendars of their years of attendance. If a student wishes to change his course he must first obtain permission of the faculty.

9. **Degrees.**—The School of Mines offers the degree of Engineer of Mines, E. M.

The conditions under which this is given are as follows:

To obtain this degree the student must have been a resident student of this institution for at least one full year prior to graduation.

All students for the above degree of Engineer of Mines are required to have had at least two years training in both Geology and principles of Mining.

The course is strictly a four years' course .

10. **Theses.**—All seniors in the E. M. course carry on special investigations during the spring term and the results are embodied in a thesis. This work must be of a mining or metallurgical character, and is under the direct supervision of the professor in charge. Each senior shall submit to the faculty not later than January 15th a thesis title which must be approved by the instructor concerned. The submitted thesis must be of typewritten form on nine by eleven inch paper bound in pamphlet or book form, and must be handed to the director not later than May 15th. This thesis is filed with the librarian as a permanent record for future reference. No Mining student can receive his degree without having handed in an acceptable thesis.

11. **Excursions.**—Part of the course consists of visiting mines, dredges and metallurgical industries in the vicinity of Dahlonega where practical information may be had. Short trips of one day's duration are quite frequent, while at some time during the year a more extensive trip is taken by the upper classmen of this course; usually to a noted mining section of the south. While on these trips the geology of the section is thoroughly investigated. All students of the E. M. course are required to take these excursions. Expenditures of this kind afford the student abundant opportunities for collecting data, materials suitable for memoirs, theses, etc.

THE MEDICAL
COLLEGE OF GEORGIA

AUGUSTA, GA.

CALENDAR.

1913.

September 15th and 16th	Examinations.
September 17th	Registration, Fees Due.
November 27th	Thanksgiving Day.
December 23rd, 1 p. m.	Christmas Recess Begins.

1914.

January 2nd, 9 a. m.	Christmas Recess Ends.
January 15th	Fees, (2nd half), Due.
January 19th	Lee's Birthday.
February 22nd	Washington's Birthday.
May 27th	Commencement.

MEDICAL DEPARTMENT OF THE UNIVERSITY OF GEORGIA.

TRUSTEES.

HON. E. H. CALLAWAY, President.
HON. LINWOOD C. HAYNE, Treasurer.
HON. P. A. STOVALL.
HON. J. S. DAVIS.
HON. J. T. NEWTON.
HON. WM. H. BARRETT.
HON. I. T. IRVIN.
HON. BOWDRE PHINIZY.
HON. JAMES WHITE.

OFFICERS.

DAVID C. BARROW, A.B., C. and M.E., LL.D., Chancellor.
WM. H. DOUGHTY, JR., A.B., M.D., Dean.
WILLIAM C. LYLE, M.D., Vice-Dean.
WILLIAM D. CUTTER, A.B., M.D., Secretary.
JOHN W. DOW, A.M., Registrar.
F. B. SWEARINGEN, Superintendent of Buildings.

FACULTY.

THOMAS R. WRIGHT, M.D., Professor of Surgery.

WILLIAM H. DOUGHTY, A.B., M.D., Professor of Surgery.

GEORGE A. WILCOX, M.D., Professor of Gynecology.

JAMES M. HULL, M.D., Professor of Ophthalmology, Otology, Laryngology and Rhinology.

THOS. D. COLEMAN, A.M., M.D., Professor of Medicine.

JOSEPH EVE ALLEN, M.D., Professor of Obstetrics.

T. E. OERTEL, M.D., Professor of Clinical Ophthalmology.

EUGENE E. MURPHY, M.D., Professor of Medicine.

W. H. GOODRICH, A.B., M.D., Professor of Genito-Urinary Surgery.

NOEL M. MOORE, M.S., M.D., Professor of Pediatrics.

CHAS. W. CRANE, M.D., Professor of Surgery.

WILLIAM C. KELLOGG, A.B., M.D., Professor of Clinical Laryngology and Rhinology.

WILLIAM C. LYLE, M.D., Professor of Clinical Otology.

HENRY M. MICHEL, M.D., Professor of Orthopedic Surgery.

WILLIAM R. HOUSTON, A.M., M.D., Professor of Medicine.

CHARLES J. MONTGOMERY, B.S., M.D., Professor of Medical Jurisprudence and Hygiene.

JOHN WINTHROP DOW, A.M., Professor of Chemistry.

HUGH N. PAGE, M.D., Professor of Anatomy.

WILLIAM D. CUTTER, A.B., M.D., Professor of Physiology and Pharmacology.

RICHARD V. LAMAR, M.D., Professor of Pathology and Bacteriology.

GEORGE A. TRAYLOR, M.D., Associate Professor of Surgery.

WILLIAM A. MULHERIN, A.M., M.D., Associate Professor of Pediatrics.

PERLEY P. COMEY, M.D., Associate Professor of Medicine.

JOHN A. JOHNSTON, M.D., Assistant Professor of Anatomy.

EVERARD A. WILCOX, A.M., M.D., Assistant Professor of Pathology.

D. H. DUPREE, B.S., M.D., Assistant Professor of Clinical Medicine and Director of Clinics.

MOSES S. LEVY, M.D., Assistant Professor of Medicine.

ARCHIBALD BLACKSHEAR, LL.B., Lecturer on Forensic Medicine.

J. H. HONAN, M.D., Lecturer on Cardio-Vascular Diseases.

C. I. BRYANS, M.D., Instructor in Gynecology.

WHATLEY W. BATTEY, JR., M.D., Instructor in Surgery.

ASBURY HULL, M.D., Instructor in Minor Surgery.

JOHN C. WRIGHT, M.D., Instructor in Medicine.

A. J. KILPATRICK, M.D., Instructor in Obstetrics.

JOHN M. CALDWELL, M.D., Instructor in Obstetrics.

G. T. BERNARD, M.D., Instructor in Dermatology.

GEO. T. HORNE, M.D., Instructor in Gynecology.

A. H. EGGERS, Ph.B., M.D., Medical Superintendent of Hospital, Instructor in Medicine.

CHAS. B. PATTERSON, M.D., Demonstrator of Pharmacy.

LOUIS W. FARGO, M.D., Assistant in Pathology, Photographer.

JAMES R. LITTLETON, M.D., Assistant in Medicine.

A. A. DAVIDSON, M.D., Assistant in Medicine.

H. J. BAKER, M.D., Assistant in Medicine.

K. W. MILLIGAN, Ph.G., M.D., Assistant in Medicine.

HENRY BROOKS, M.D., Assistant in Medicine.

H. W. SHAW, M.D., Assistant in Genito-Urinary Surgery.

H. J. EVE, M.D., Assistant in Obstetrics.

L. W. VERDERY, M.D., Assistant in Pediatrics.

GEO. H. LEHMAN, M.D., Assistant in Medicine.

J. R. ROBERTSON, M.D., Assistant in Surgery.

T. G. KERSHAW, M.D., Assistant in Anatomy.

S. J. LEWIS, M.D., Assistant in Medicine.

E. R. DENDY, R.N., Radiographer.

ANNOUNCEMENT FOR SESSION 1913-1914.

The eighty-second annual session of the College of Medicine of the University of Georgia, will begin September 17, 1913, and end May 27, 1914.

The Medical College of Georgia was founded in 1828, and a general course of lectures begun in the fall of the following year. In 1873 an affiliation with the University of Georgia was brought about, but this was purely a nominal connection, though the diplomas were signed by the Chancellor of the University.

A graded course was established in 1893, consisting of three courses of lectures in the beginning, but gradually lengthening out until the four-year course was required in 1898.

Realizing the necessity for a more definite relation between the University of Georgia and its medical department this matter was taken up with the University Trustees and in 1911 the Medical College of Georgia became, by special enactment of the Legislature, an integral part of the University of Georgia, and now operates under its laws and regulations, thus establishing the relation in fact as well as in name.

THE COLLEGE BUILDING.

The Medical Department of the University of Georgia has a tract of some forty-five acres in the heart of the city, and a substantial four-story brick building.

In the basemetn of this building are located the quarters of the outpatient department for the treatment of the city poor. It also contains a locker room and lounging room for the students, shower bath, autopsy rooms and storeroom for anatomical material.

The first floor center is occupied by the offices of the Dean and Registrar, the reading room and library, faculty and coat room.

The south wing is devoted to an auditorium seating 225, and an amphitheatre in which a large epidiascope is installed.

In the north wing are found the commodious quarters of the Department of Chemistry, consisting of a lecture room, stock room, professors' room and general laboratory.

The dissecting room, histological laboratory with adjoining preparation room, and private laboratories fill the south wing of the second floor, while in the north wing are the laboratories of Pathology and Bacteriology with a museum, preparation rooms, and private laboratories for professors. On this floor there are also two class rooms.

The Department of Physiology and Pharmacology is located on the top floor. Its accommodations consist of a large laboratory and class room, a small laboratory for operative work, a store room and a workshop.

HOSPITAL FACILITIES.

The Medical Department has, by contract with the City of Augusta, in perpetuity, control of all the city hospitals. At present these consist of the City Hospital, capacity sixty beds, for white patients; the Lamar Hospital, capacity forty beds, for colored, and three cottages for the isolation of contagious diseases.

The city is now building, on the grounds of the Medical Department, the University Hospital, a fire-proof structure of some three hundred and fifty beds, which will replace the present City and Lamar Hospitals. It consists of a white hospital, a colored hospital, an administration building, and one containing the kitchen, laundry and power house. In the latter will be installed the steam heating plant, a refrigerator plant, and electric generators for light and power. The new hospital will be ready for occupancy early in 1914.

The Wilhenford Children's Hospital, a privately endowed institution, is also located on the property of the College and its medical board consists exclusively of the members of the faculty.

The City Dispensary is conducted by the Medical Department in its own building, and, in addition to the care of the ambulant sick, the visiting of the sick poor in their homes has also been delegated to the college authorities, affording unusually well-rounded facilities for clinical instruction.

COMBINED COURSE FOR DEGREES OF B. S. AND M. D.

The authorities of the University of Georgia confer the degree of Bachelor of Science in conjunction with the Medical Department. The first two years of this course will be given in Athens, and upon completion of these, the first two years in the Medical Department will count as the last two for the degree of B. S. These two years in the Medical Department also count toward the degree of M. D., so that by taking advantage of this plan the student is enabled to obtain both degrees in six years instead of the eight ordinarily required.

CLINICAL TEACHING.

The faculty are not impressed with the value of amphitheatre clinics, especially in operative surgery, and are inclined to regard them as rather a waste of the students' time than otherwise. For this reason only a limited number of such clinics will be provided for, and every effort will be made to use them for such demonstrations only as can be made profitable to the whole class. On the other hand the more the student personally and directly participates in whatever clinical demonstration is in progress, the more does he learn from it and the more lasting the impression. For this reason the faculty are persisently trying to develop this side of the teaching, and to increase its efficiency and value from year to year as added experience may suggest, and increased growth and ampler resources permit.

By a special arrangement all the chemical and microscopical work of the City Board of Health is carried on in the laboratories of the College. This affords an unusual and most valuable supply of material, all of which can be, and much of which is, used for the instruction of students.

CONTAGIOUS DISEASES.

Through affiliation with the Board of Health, unusual opportunities are afforded for students to acquire some degree of practical familiarity with these very important, but usually inaccessible cases. The facilities for instruction in these diseases are far from perfect, though better than are found in other schools, of which we have knowledge.

The faculty is alive, however, to the importance of a careful training in this direction for every physician, and have plans whereby such practical instruction as is compatible with safety, may be given to all students.

COURSE OF INSTRUCTION.

This extends through four annual sessions of eight and one-half months each, beginning September 17th, and ending May 27th. This gives in each session thirty-three weeks of actual teaching, exclusive of holidays and examinations.

The first and second years are devoted exclusively to laboratory work in the fundamental branches, Anatomy, Chemistry, Physiology, Pathology and Pharmacology, as indicated in the printed schedule, except that in the last part of the year instruction is given in Physical Diagnosis and Minor Surgery.

The faculty have under consideration the giving, at this time also, of certain other short courses, to be announced later, which will better prepare the student for the clinical work taken up in the third year.

During the past session in addition to the regular didactic and quiz work the third year class devoted each afternoon to practical work in the Dispensary, and the members of the fourth year class spent each afternoon in the hospitals, taking case histories, examining patients, assisting in operative work, etc.

REGULATIONS GOVERNING ENTRANCE.

Students are admitted to the Medical Department, either on satisfactory examination in the required subjects, or on the formal certificate of the principal of an "Accredited High School," requiring fourteen Carnegie units, except that students from approved Medical Colleges are admitted in accordance with regulations stated below.

Admission by Examination. Examinations for admission to the Medical Department are conducted by the Department of Secondary Education of the University. They will be held at Athens on June

12-14, and September 15-16, 1913. They will also be given at the Medical School at Augusta on the latter dates.

Written examinations are required for all except those presenting proper certificates as described below.

Admission by Certificate. The applicant for entrance into the Medical School will be required to present a certificate from a high school giving a four-year course, showing a credit of fourteen units, two of which units must be in science. It is recommended that these units be in Physics, Chemistry, Botany or Zoölogy.

Students whose certificates do not cover all the units necessary for admission, must supply the deficiency by written examinations. It is, therefore, necessary that the principal forward the certificate as soon as possible after receiving notice from the student that he intends to enter the Medical Department. The Department of Secondary Education will then note omission and notify the applicant what examinations will be required. Application should be made to the principal by the student as soon after graduation as possible, when access to the records is easily obtained. It is requested that all certificates be filed by the first of July or as early thereafter as possible. Certificates will not be accepted, which cover less than one year's attendance in the school issuing the certificate. Before certifying to the work done in the school, the principal should satisfy himself of the previous high school training of the pupil, if a part was done in another school. Subjects in which an examination has been passed for admission to the school, or for which regular certificates from recognized schools were received, may be included in the certificate. Work done in the grammar grades, or high school reviews of such work cannot count as units of high school training.

Prospective students deficient in not more than two units should communicate with the Chancellor at Athens, where facilities are offered in a special summer course for supplying these deficiencies.

The requirements for admission are stated in terms of units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. This statement is designed to afford a standard of measurement for work done in secondary schools. It takes the four-year high school course as a basis, and assumes that the length of the school year will be approximately thirty-six weeks; that a period is at least forty-five minutes, and that the study is pursued for four or five periods a week; but under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than one hundred and twenty sixty-minute hours, or their equivalent. Schools organized on a different basis can, nevertheless, estimate their work in terms of this unit. Less than forty minutes for recitation will reduce the unit value. The subject may cover more than one year, according to the pleasure of the teacher arranging courses. The time element counts on this certificate as well as the quantity of work. As a general rule, four units per year is as much as the average student can prepare adequately at one time.

Each subject named below is valued at a specific number of units if the proper time has been devoted to its preparation, but its value cannot rise above that number of units, although additional time may have been given to it.

A total of fourteen units will be required for admission.

UNITS REQUIRED FOR ENTRANCE TO MEDICAL SCHOOL.

	Units
English	3
Algebra	1½
Geometry	1
Ancient History, 1 English History, 1 American History and Civics, 1 Modern History, 1	2

Not more than six and one-half units from the following:

	Units
Latin	3
Greek	1¾
French	2
German	2
Spanish	1
Agriculture	1
Physical Geography	1
Drawing	1
Physics	1
Physiology	½
Botany	1
Chemistry	1
Zoölogy	1
Additional History, Mathematics, English or Foreign Languages, each	1

The General Bulletin of the University gives in detail the work constituting a Carnegie unit in each particular subject.

Students planning to study medicine are urged to offer as many units in Science as possible.

ADMISSION TO ADVANCED STANDING.

Students from other colleges rated A by the Council on Medical Education of the American Medical Association, will be admitted to advanced standing on presentation of satisfactory evidence that they have passed those subjects which have been covered by the class they wish to enter, as well as evidence of requisite preliminary education.

Students from colleges rated B by the Council on Medical Education may be admitted at the discretion of the committee on examinations only on presentation of satisfactory evidence of preliminary education equal to the requirements of the Medical Department of the University of Georgia, and after passing examinations in all subjects which have been covered by the class they wish to enter.

Students not having the necessary fourteen units may remove the conditions by examination held, under the Department of Secondary Education of the University of Georgia, in Augusta, on the two days preceding the opening of the session.

EXAMINATIONS AND PROMOTIONS.

Final examinations in the work of each year will be held during the week preceding commencement, except in cases where courses are finished before that time, when the examinations may be held on completion of the course.

If a student fails to pass in any subject he may, at the discretion of the committee on examinations, be permitted to take a re-examination. Such re-examination shall be held on the two days preceding the opening of College and at no other time.

REQUIREMENTS FOR GRADUATION.

A candidate for the degree of M. D. from the Medical Department of the University of Georgia must have attended four full courses of lectures, the last of which shall have been in this school, must be twenty-one years of age and of good moral character.

Attendance of 80% of the class exercises, and a mark of 75% is required in each course in order to advance.

TUITION AND FEES.

The tuition is $125.00 for each year, payable in advance, one-half at the time of registration, and one-half on or before January 15th.

A matriculation fee of $5.00 is charged at the time the student registers. This fee is charged only once during the whole course.

Students the first and second year pay $5.00 each year at the time of registration for the use of Anatomical Material.

A deposit of $10.00 is required of all students to cover possible injury to the property of the College. The unused portion of this deposit is returnable at the end of the college year.

A Final Examination fee of $25.00 is due April 1st of the fourth year.

HOSPITAL INTERNES.

Six Hospital Internes are annually appointed by the Faculty from the honor men of the class, two to the City and two to the Lamar Hospitals. The Faculty also has the appointment of a salaried interne to the Georgia State Sanitarium (for the Insane) at Milledgeville. The holders of these appointments have exceptional advantages for study and practice.

CHARLES McDONALD BROWN SCHOLARSHIP FUND.

This endowment was established at the University in 1881, by the late Hon. Joseph E. Brown, ex-Governor of Georgia.

By the rules and regulations for the administration of this fund the Medical Department is made to participate in its benefits. Application must be made to the Chancellor of the University at Athens, prior to the first of April each year.

BOARD.

Board can be had convenient to the College and Hospitals at prices varying from $4.00 to $6.00 per week. Students arriving in Augusta will report at the Medical School, on Railroad Avenue at the corner of Harper Street.

AUGUSTA, A NOTED HEALTH RESORT.

Augusta, the seat of the Medical Department of the University of Georgia, is noted as a winter health resort. Its mean temperature for the months of November, December, January, February and March is higher than that of the celebrated health resorts of the Mediterranean—Cannes, Nice and Mentone—the mean temperature of Augusta for a long number of years having been 51.4 degrees Fahrenheit. Augusta also possesses advantages over Cannes and Mentone in point of mean relative humidity, that of Augusta being 68.9; Cannes, 72.4, Mentone, 72.4.

In combined points of mean winter temperature and mean relative humidity, Augusta possesses advantages over any city in America, which is the seat of a medical college. These advantages should especially appeal to the student who wishes to avoid the rigors of a more northern climate.

TEXT BOOKS.

Text books can be purchased from the College Book Store in the College building at list prices.

POST OFFICE ADDRESS OF GRADUATES.

Each graduate of this school is requested to send his full name and address in order that the Bulletin may be sent to all Alumni. All communications should be addressed to The Medical Department of the University of Georgia, Augusta, Ga.

COURSES OF INSTRUCTION.

ANATOMY.

Hugh N. Page, M.D., Professor.
John Allen Johnson, M.D., Assistant Professor.
Theodore G. Kershaw, M.D., Assistant.
———— ————————, Assistant.

This department offers a group of courses intended to give a comprehensive view of both the gross and microscopic anatomy as well as the embryology of man. The material for dissection is plentiful, and the laboratories are thoroughly equipped with apparatus, libraries and models for the carrying on of these courses.

1. Systematic Course in Dissection of Human Body. Each student is required to dissect one-half of the human body, the course being amplified by lectures, recitations and demonstrations. Upon the completion of each part a practical examination is required as well as a final examination upon the completion of the course. Twelve hours a week—October to May. (Page and Assistants.)

II. Osteology. The student is provided with a skeleton for private study. Lectures, demonstrations, recitations and laboratory occupy three hours a week—September to November. (Page.)

III. General Embryology. The development of the chick and pig is studied by means of dissection and microscopic sections. Human embryology is given from serial sections, preserved specimens and models. Fourteen hours a week—September, October and November. (Johnston and Assistants.)

IV. Histology and Organology. This course consists of lectures, recitations and laboratory work, amplified by drawings and the projection microscope. The study of the tissues is first taken up, followed by the minute structure of the adult organs. The elements of histological technique are also given in this course. Fourteen hours a week—April to November. (Johnston and Assistants.)

V. Neurology. In this course the gross and microscopic anatomy of the central nervous system, together with its development is given, followed by the consideration of the special sense organs. Fourteen hours a week—April-May, 15. (Page-Johnston.)

VI. Topographical and Applied Anatomy. This course continues course I, and gives the anatomy as applied to the practice of Medicine and Surgery. Large use is made of frozen sections, special preparations, special dissections and the living model. Four hours a week—October to May. (Page and Assistants.)

VII. Advanced Anatomy. To those students properly qualified, courses will be offered in gross and microscopic human and comparative anatomy, in embryology and in laboratory technique. The various members of the staff will direct this work.

VIII. Investigation. Qualified students will be given an opportunity to undertake original investigations in this department under the direction of Professor Page.

CHEMISTRY.

John Winthrop Dow, Professor.

I. Inorganic Chemistry. A laboratory course with lectures and recitations covering elementary chemistry, and in qualitative analysis. Instruction is also given in the simpler volumetric and gravimetric methods of quantitative analysis. Thirteen hours a week—September to December. (Dow.)

II. Organic Chemistry and Toxicology. A laboratory course with lectures and recitations covering the structures and properties of the various classes of carbon compounds. Typical members of each series are prepared in the laboratory and their reactions noted. This course also includes the study of the chemistry of poisons and their qualitative identification. Thirteen hours a week—January to March. (Dow.)

III. Physiological Chemistry. A laboratory course with lectures and demonstrations dealing with the chemistry of the tissues and secretions of the animal body. Special attention is given to the recognition and determination of the normal and pathological constituents of the urine. Thirteen hours a week—March to May. (Dow.)

PHYSIOLOGY AND PHARMACOLOGY.

William D. Cutter, A.B., M.D., Professor.

Charles B. Patterson, M.D., Demonstrator.

H. Frank Wilson, Technician.

I. Physiology. Recitations and demonstrations cover systematically the subject of human physiology, while experiments, carried on by the students in pairs, serve to illustrate and emphasize the important principles underlying the behavior of the various elements of the body, and also serve to develop technique. In the latter part of the course mammals are used in the study of the more complex functions, such as the circulation, respiration, etc. Twelve hours a week—September to February. (Cutter.)

II. Pharmacology. A systematic study of the action of drugs, conducted by means of recitations, demonstrations and laboratory work. The reaction of the organism to the various classes of drugs is investigated by the student in a series of experiments on frogs, turtles, and mammals. This course includes the doses and therapeutic indications of the pharmacopeial preparations of accepted value. Twelve hours a week—February to May. (Cutter.)

III. Pharmacy. Practical instruction in compounding, to groups of two or three students. Two hours a week to each section—February to May. (Patterson.)

OBSTETRICS.

Joseph Eve Allen, M.D., Professor.

A. J. Kilpatrick, M.D., Assistant Professor.

J. M. Caldwell, M.D., Assistant.

Hinton J. Eve, M.D., Assistant.

I. Obstetrics. Lectures once a week, recitations once a week on the management of normal pregnancy and labor, together with practical work with the manakin. Two hours a week—October to May. (Allen-Kilpatrick.)

II. Obstetric Diagnosis. A practical course conducted in the outpatient department, in which small sections are instructed in history taking, and the examination and care of patients in the later stages of pregnancy. One hour a week for six weeks. (Kilpatrick-Caldwell-Eve.)

III. Obstetric Surgery. Lectures and recitations on obstetrical operations and the management of abnormal labor. One hour a week—October to May. (Allen.)

IV. Attendance on Confinements. Members of the fourth year class are required to witness, and to participate in the conduct of at least six cases of labor. (Kilpatrick-Caldwell-Eve.)

DIVISION OF PATHOLOGY AND BACTERIOLOGY.

Richard V. Lamar, M.D., Professor.

Everard A. Wilcox, A.B., M.D., Assistant Professor.

Louis W. Fargo, M.D., Assistant.

I. General Bacteriology. Lectures upon the systematic position of the bacteria, their classification, properties and relation to fermentation, putrefaction and parasitism, introduce the subject which is then taught practically in the laboratory. The student learns at first hand the methods of sterilization, and the preparation of culture media, and of the cultivation, isolation and identification of bacteria, beginning with certain saprophytes. The commoner species pathogenic for man are studied individually in detail. The laboratory exercise is preceded by a short talk in which the aim and principle of what the student is about to do is made clear for him. Each student is provided with a microscope, the necessary utensils and a locker. First year, 15 hours a week, from March 15th, to May 15th. (Lamar.)

II. Bacteriology of Disease. A course of lectures and demonstrations treating of infection and immunity. Second year, 1 hour a week—September to May. (Lamar.)

III. General Pathology. The lectures and recitations in this course cover the elementary process of injury and repair, and the special pathological lessons met with in general medicine. In the laboratory one hundred microscopic sections are mounted and studied by each student. The work in technique begun in the course in histology is continued until students are able to fix, harden, cut, stain, and mount body tissues by simple methods.

Two freezing microtomes are available for learning the methods of rapid diagnosis of suitable pathological specimens.

Gross pathology is taught at the autopsy table and by demonstrations upon fresh and preserved specimens. Between thirty and forty autopsies are utilized. Specimens of fresh tissue from surgical operations are shown and each student is taught to describe their gross and microscopical appearance. Second year, 9 hours a week—September to May. (Wilcox.)

IV. Clinical Pathology. The common chemical, physical and microscopical methods of making laboratory examinations of material from the sick are studied in detail. The pathological findings in urine, sputum, blood, and stools are gone over with care and the technique of blood counting and staining is taught in the laboratory, preparatory to ward work in the hospitals. Practical application of serum pathology is made in teaching the Wasserman and Widal reactions. Recitations and lectures are devoted to the interpretations of laboratory findings. The equipment is complete, including electric and water centrifuge machines, blood counting apparatus for each student, haemoglobinometers, incubators, a polariscope and microscopes. Third year, 4 hours a week—September to May. (Lamar.)

GYNECOLOGY.

George A. Wilcox, M.D., Professor.
C. I. Bryans, M.D., Assistant.
Geo. T. Horne, M.D., Assistant.

I. Gynecology. Lectures and recitations dealing with the diagnosis and treatment of diseases of women. Two hours a week. (Wilcox.)

II. Clinical Gynecology. Instruction in the Out-patient Department in the examination of patients, history taking and treatment. Six hours a week for ten weeks. (Wilcox-Bryans-Horne.)

III. Operative Gynecology. Operative Clinics are held at the City and Lamar Hospitals, at which the students are required to act as assistants. Four hours a week for ten weeks. (Wilcox.)

DIVISION OF MEDICINE.

Thomas D. Coleman, A.M., M.D.
T. E. Oertel, M.D., Professor.
Eugene E. Murphey, M. D., Professor.
Noel M. Moore, M.S., M.D., Professor.
William R. Houston, A.M., M.D., Professor.
Charles J. Montgomery, B.S., M.D., Professor.

William A. Mulherin, A.M., M.D., Associate Professor.

Perley P. Comey, M.D., Associate Professor.

Moses S. Levy, M.D., Assistant Professor.

Archibald Blackshear, LL.B., Lecturer.

J. H. Honan, M.D., Lecturer.

Jno. C. Wright, M.D., Instructor.

G. T. Bernard, M.D., Instructor.

A. H. Eggers, Ph.B., M.D., Instructor.

James R. Littleton, M.D., A. A. Davidson, M.D., H. J. Baker, M.D., King W Mulligan, Ph.G., M.D., Henry Brooks, M.D., George H. Lehman, M.D., S. J. Lewis, M.D., Assistants.

I. Physical Diagnosis. Lectures, one hour, and practical demonstrations on living subjects, two hours. Three hours a week. (E. A. Wilcox.)

II. Hygiene. Lectures on Hygiene and preventive medicine. Two hours a week for ten weeks. (Montgomery.)

III. Medicine. Lectures and recitations on general medicine. Three hours a week. (Levy-J. C. Wright.)

IV. Tropical Medicine. Lectures and demonstrations on tropical medicine and parasitology. One hour a week—September to January; two hours a week—January to May. (Oertel.)

V. Medicine. Practical instruction to small sections in the outpatient department in history taking, examination, diagnosis, and treatment of medical cases. Twelve hours a week for twelve weeks. (Levy and Assistants.)

VI. Dermatology. Lectures and recitations. One hour a week. (Bernard.)

VII. Special Therapeutics. Including hydrotherapy and electrotherapeutics. One hour a week. (Lyle.)

VIII. Dietetics. One hour a week. (Montgomery.)

IX. Medical Jurisprudence. One hour a week. (Monegomery-Blackshear.)

X. Medicine. Infectious diseases. One hour a week—September to January. (Coleman.)

XI. Clinic. Two hours a week—September to January. (Coleman.)

XII. Cardio and Vascular Disease. Lecture and demonstration. One hour a week—January to May. (Honan.)

XIII. Ward Work in Medicine. For a period of ten weeks, one-third of the fourth-year class is assigned to duty in the medical wards of the hospitals. During this time they take the histories and make all necessary examinations of the patients assigned to them and keep complete records of their cases so long as they remain in the hospital. Twelve hours or more a week for ten weeks. (Coleman-Murphey-Houston.)

XIV. Pediatrics. Lectures, quizzes and case teaching, two hours; clinical instruction at the Wilhenford Hospital four hours. Six hours a week. (Moore-Mulherin.)

XV. Nervous and Mental Diseases. Two lectures and one clinic. Three hours a week. (Houston.)

XVI. Prescription Writing. One hour a week—September to January. (Comey.)

XVII. Experimental Medicine. The laboratories of the College and laboratory material available for capable students during the senior year, who may desire to pursue independent work under the direction of the Staff—Optional.

XVIII. Special Courses will be offered to trained physicians who may desire to work in the laboratories, dispensaries or hospitals.

DIVISION OF OPTHTHALMOLOGY, OTOLOGY, LARYNGOLOGY AND RHINOLOGY.

James M. Hull, Professor.
T. E. Oertel, Professor.
William C. Lyle, Professor.
William C. Kellogg, Professor.

Diseases of the Eye, Ear, Nose and Throat. Instruction in these branches is given by means of didactic lectures, demonstrations, recitations and clinical lectures. The diseases of the organs of special sense are covered in a systematic way. Two hours a week. (Hull.)

Clinical Instruction is given to small groups of students, chiefly in the dispensary, in examination, diagnosis and treatment. Six hours a week for ten weeks. (Hull-Oertel-Kellogg-Lyle.)

DIVISION OF SURGERY.

T. R. Wright, M.D., Professor.
Wm. H. Doughty, A.B., M.D., Professor.
W. H. Goodrich, A.B., M.D., Professor.
Chas. W. Crane, M.D., Professor.
H. M. Michel, M.D., Professor of Orthopedic Surgery.
George A. Traylor, M.D., Associate Professor.
W. W. Battey, Jr., M.D., Instructor.
Asbury Hull, M.D., Instructor.
H. W. Shaw, M.D., Assistant.
J. R. Robertson, M.D., Assistant.
E. R. Dendy, R.N., Radiographer.

I. Minor Surgery. Lectures and demonstrations on surgical technique, with practical work in the application of splints and bandages. Three hours a week—February to May. (Hull.)

II. Surgery. General surgery and regional surgery of the extremities, including fractures and dislocations. Four hours a week. (Wright-Traylor.)

III. Clinics. Practical instruction is given in the outpatient department. Twelve hours a week for twelve weeks. (Goodrich-Crane-Michel-Traylor and Assistants.)

III. Genito Urinary Surgery. Lectures and recitations on the surgery of the genito-urinary tract and on venereal disease. One hour a week. (Goodrich.)

IV. Surgery. Regional surgery of the head, neck, thorax and abdomen. Two hours a week. (Doughty.)

V. Operative Surgery. Surgical operations are demonstrated on the cadaver. Two hours a week—January to May. (Crane.)

VI. Surgical Pathology. A laboratory course in the special pathology of surgery and gynecology. Two hours a week—September to January. (Wilcox.)

VII. Operative Clinics and Ward Work. Small sections are assigned to duty in the surgical wards. The students take histories, and make all necessary examinations. They also assist in operations and receive instructions in the administering of anaesthetics. Twelve or more hours a week for ten weeks. (Wright-Doughty-Goodrich-Crane.)

SCHEDULE OF HOURS FOR THE YEAR, 1912-13.

Anatomy.

Gross Anatomy	498 hours	
Neurology	42 "	
Histology	168 "	
Embryology	72 "	
		780 hours

Physiology.

Inorganic Chemistry	156 hours	
Organic Chemistry	117 "	
Physiological Chemistry	117 "	
	390 hours	
Physiology	240 "	
		630 hours

Pathology.

Bacteriology	112 hours	
Hygiene and Dietetics	45 "	
*Pathology	330 "	
		487 hours

*The time spent in attendance upon autopsies is estimated at 30 hours.

Pharmacology.

Pharmacology	120 hours	
Pharmacy	30 “	
Therapeutics	30 “	
Prescription Writing	15 “	
		195 hours

Medicine.

Physical Diagnosis	90 hours	
Clinical Pathology	120 “	
General Medicine	45 “	
Tropical Medicine	100 “	
Pediatrics	100 “	
Nervous and Mental Diseases	90 “	
Medical Jurisprudence	30 “	
Dermatology	36 “	
		1015 hours

Surgery.

General Surgery	534 hours	
Orthopedics	60 “	
Genito-Urinary Diseases	30 “	
Eye, Ear, Nose and Throat	108 “	
		732 hours

Gynecology and Obstetrics.

Gynecology	100 hours	
*Obstetrics	182 “	
		282 hours
Total		4121 hours

*The time spent in attendance upon confinements is estimated at 40 hours.

FIRST YEAR CLASS.

Aycock, Mell	Georgia
Bark, Henry George	Georgia
Freeman, R. F.	Georgia
Kresberg, Sheir	Georgia
McGarity, J. Arthur	Georgia
McGill, Robert E.	Georgia
McNeill, Frank P.	South Carolina
Oliphant, Charles N.	Georgia
Mercer, A. B.	Georgia
Pilcher, John J.	Georgia
Mercer, A. B.	Georgia
Poliakoff, Nathan	Georgia
Rosborough, Dalton Y.	Florida
Tyler, Lockland B.	Georgia

SECOND YEAR CLASS.

Bennett, Herbert	Georgia
Carroll, Kelson A.	Georgia
Drane, Arthur H.	Georgia
Hamilton, Robert D.	Georgia
Jenkins, Wilbur Gibson	Georgia
Lewis, John R., Jr.	Georgia
Todd, Lucius N.	Georgia
Verdery, William C.	Georgia
Watts, William B., Jr.	Georgia
Wells, Roger D.	Georgia
White, John A.	Georgia
Youmans, Solomon	Georgia

THIRD YEAR CLASS.

Brown, Thomas P.	Georgia
Butler, James H.	Georgia
Colson, Dell	Georgia
Mercer, M. S.	Georgia
Fishburn, Charles C.	Georgia
Fowler, John Richard	South Carolina
Hagins, William A.	Georgia
Hall, Etheredge J.	Georgia
Johnson, James A.	Georgia
Kirkland, Needham L.	South Carolina
McAfee, Linton Cobb	Georgia
Montgomery, Robert C.	Georgia
Nevil, James L.	Georgia
Newsom, Erle T.	Georgia
Payne, James W.	Georgia
Sample, James L.	Georgia
Walker, Eugene M.	Georgia
Ware, Fitz Lee	Georgia
Mercer, A. B.	Georgia
Waters, Lemuel T.	Georgia
Wilson, Talmage S.	Georgia

FOURTH YEAR CLASS.

Abaza, Sulieman H.	Egypt
Barnett, Ross A.	Florida
Blanchard, Alex. S.	Georgia
Cason, Turner Z.	Florida
Cole, William A.	Georgia
Downing, Ernest E.	Georgia
Durham, Isiah D.	South Carolina
Durham, Robert B.	South Carolina
DuVall, Ward Beecher	Georgia

Ellen, John C.	South Carolina
Hall, Warren L.	Georgia
Hardy, Benj. F.	North Carolina
Herndon, Oma E.	Georgia
Holcombe, Thomas L.	Georgia
Hunter, William G.	Connecticut
Hutchings, Ernest H.	Georgia
Hutcherson, Sidney F.	Georgia
Lord, Columbus B.	Georgia
McClintick, James K.	Pennsylvania
McElroy, Homer A.	Florida
Meadows, William W.	Georgia
Mella, Hugo	Indiana
Mercer, Joseph E.	Georgia
Morris, Jesse E.	Georgia
Mulford, Arnold E.	Long Island
Ousley, Isaac	South Carolina
Pafford, Jefferson W.	Georgia
Post, William A.	Georgia
Roberts, William H.	Georgia
Scharnitzky, Emile	Georgia
Scruggs, Claude G., Jr.	Georgia
Silver, Marion D.	Georgia
Taylor, Joseph E.	Georgia
Wallace, Joseph W.	Georgia
Ward, George	Georgia

TRAINING SCHOOL FOR NURSES.

A training school for white female nurses is operated in connection with the City Hospital, under the supervision of the Faculty of the Medical Department of the University of Georgia. Pupil nurses are required to take a three-year course of training prior to graduation. The course is modern and thorough. This school was registered June 10, 1905, by the Board of Regents of the State of New York.

Persons desiring further information in regard to the Training school will address

MISS MORAN,
Superintendent City Hospital,
Augusta, Ga.

THE GEORGIA SCHOOL OF TECHNOLOGY

ATLANTA, GA.

GEORGIA SCHOOL OF TECHNOLOGY

CALENDAR, 1913-14.

First Term.

Begins 8:00 A. M., September 17, 1913, ends February 1, 1914.

Entrance Examinations and Re-examinations begin September 8, 1913. Schedule of these examinations will be mailed to applicants after August 1, 1913.

Christmas vacation begins at 11 A. M., December 23, 1913; ends 8:00 A. M., January 5, 1914.

Examinations to remove Second Term Deficiencies of the previous session will be held during the week beginning January 2, 1914.

Second Term

Begins 8:00 A. M., February 2, 1914; ends June 10, 1914.

Commencement Day, Wednesday, June 10, 1914.

By order of the Board of Trustees, the only Holidays to be observed are Thanksgiving Day, and Memorial Day (April 26th).

The Departments of the School are as follows:

Architecture	Prof. F. P. Smith.
Chemistry	Prof. W. H. Emerson.
Engineering Chemistry	Prof. W. H. Emerson.
Civil Engineering	Prof. T. P. Branch.
Drawing	Prof. J. S. Coon.
English	Prof. S. S. Wallace.
Electrical Engineering	Prof. H. P. Wood.
Experimental Engineering	Prof. J. N. G. Nesbit.
Geology	Prof. W. S. Kell.
Mathematics	Prof. Floyd Field.
Mechanical Engineering	Prof. J. S. Coon.
Modern Languages	Prof. J. B. Crenshaw.
Physical Culture	Dr. W. A. Jackson.
Physics	Prof. J. B. Edwards.
Textile Engineering	Prof. W. N. Randle.

Degrees of Bachelor of Science are given in:

Architecture.
Chemistry.
Engineering Chemistry.
Civil Engineering.
Electrical Engineering.
Mechanical Engineering, and
Textile Engineering.

Certificates are given for the satisfactory completion of two year's work in Architecture and Special Textile.

The School has a superior equipment in its wood, smith and machine shops and foundry. Its Chemical, Electrical, Experimental and Physical Laboratories, Field and Office Instruments and Architectural Models and Drawings are as complete as any in the south; they are constantly being added to and are kept up to date.

In addition to the above named equipment, the Georgia School of Technology is the possessor of:

The handsame Carnegie Library, the gift of Mr. Andrew Carnegie.

The Joseph Brown Whitehead Memorial Hospital with its organization of Physician and trained nurses, where the health of the students is looked after.

The Young Men's Christian Association Building, made possible by the generosity of Mr. John D. Rockefeller and other friends of the School. This is the students' very own.

The A. French Textile School, named in honor of Mr. Aaron French, of Pittsburg, Penn., whose gifts made possible the beginning and whose generosity continued to help until his death. This is a complete school of cotton manufacture.

For information concerning any of the Departments, address Dr. K. G. Mathewson, President, Atlanta, Ga.

TUITION AND FEES.

Each county in the State is entitled to fifteen scholarships.

These scholarships will be awarded on the ground of excellence in character and preparation, and time of entrance.

The amount of tuition charged to the excess of fifteen from a county of this State is $25.00 per annual session.

Residents of other States pay a tuition fee of $100.00 per year in addition to the fees of $25.00 and $5.00 mentioned below.

Every student, of whatever place of residence, pays an annual fee of $25.00 to cover contingent expenses. Half of this amount is payable on entrance, and the remainder on or before February 2, 1914.

A contingent fee of 5.00 will be required to be deposited with the treasurer on entrance, to cover injury done College buildings or furniture, which sum will be returned to the student on leaving, if not forfeited.

All students not residing at home will pay a medical fee of $5.00 per term, which fee will entitle them to the benefits of the new Hospital.

All students will be required to deposit at the beginning of the fall term:—

$12.50 of the annual fee.

$5.00 damage fee, unless already deposited.

$12.50 of the tuition fee, if subject to tuition.

$5.00 medical fee.

And on or before February 2, 1914:

$12.50 of the annual fee.

$12.50 of the tuition fee, if subject to tuition.

$5.00 medical fee.

Residents of other States are subject to the above requirements, substituting $50.00 for the amount of the tuition fee per half year.

Each member of the Senior class must pay a diploma fee of $5.00 before graduating.

"Examinations at other than the regular examination times will be granted in exceptional cases only and by Faculty action. A fee of 2.00 will be charged in all such cases."

Until the above requirements are complied with, no student will be allowed to participate in the duties and recitations of his class.

The student is advised to defer the purchase of drawing instruments and materials until he can have the direction of the professors in their selection. The prices range from $8.00 to $15.00.

Text-books and stationery can be purchased from the School Quartermaster at reasonable rates. The student is advised, however, to bring such scientific books as he may possess.

No fees are refunded to students who are required to leave for deficiency in conduct, in shop or mill work, or in studies, or who may withdraw for any reason, except for disabling sickness, properly certified to by a reputable physician. In the latter event, an equitably prorated amount will be refunded, provided the student was not able to return to the School before the end of the term in which he withdrew.

DISCIPLINE AND DORMITORY REGULATIONS.

The students of the Georgia School of Technology have a record for good conduct unsurpassed by any corps in the country. Regulations are few and are such as will conduce to the development and best interest of the student body. The whole law may be written in one sentence: "Do your work and conduct yourself as a gentleman." When the student fails in this and convinces the Faculty that he has not come to work, his parents are requested to withdraw him.

All students in the Apprentice or Freshman classes, not twenty-one years of age and not living with parents, relatives, or guardians, are required to live in the Dormitory. Students of higher classes will not be assigned rooms until all eligible lower classmen have been provided for. Students of higher classes having a brother in the Dormitory will be allowed to room with him.

Students not required to live in the dormitory, but who elect to do so, shall be required to remain therein to the end of the Academic year.

On request, patrons will be furnished with the printed Rules and Regulations.

LOCAL BOARD OF TRUSTEES.

N. E. HARRIS, Chairman	Macon, Ga.
*COLUMBUS HEARD	Greensboro, Ga.
W. B. MILES	Atlanta, Ga.
GEORGE WINSHIP	Atlanta, Ga.
N. P. PRATT	Atlanta, Ga.
H. G. NOWELL	Monroe, Ga.
E. R. HODGSON, JR.	Athens, Ga.
GEORGE J. BALDWIN	Savannah, Ga.
G. F. GOBER, Ex-Officio	Marietta, Ga.
W. E. SIMMONS, Ex-Officio	Lawrenceville, Ga.
CLARK HOWELL, JR., Ex-Officio	Atlanta, Ga.

FACULTY.

KENNETH GORDON MATHESON, A.M., LL.D., President.

WILLIAM HENRY EMERSON, Ph.D., Sc.D., Dean.

THOMAS PETTUS BRANCH, B.E., Secretary and Registrar.

ROBERT LEMUEL WIGGINS, A.B., M.A., Associate Registrar.

JAMES SAMUEL AKERS, Treasurer.

WILLIAM ANDREW JACKSON, M.D., Physician.

SAMUEL STUART WALLACE, A.M., Pd.D., Superintendent of Dormitories.

LAURA HAMMOND, (Graduate Pratt Institute), Librarian.

JULIA HAMMOND, Assistant Librarian.

WILLIAM HENRY EMERSON, Ph.D., Sc.D., Professor of Chemistry.

JOHN SALYER COON, M.E., Sc.D., Professor of Mechanical Engineering and Drawing; Superintendent of Shops.

THOMAS PETTUS BRANCH, B.E., Professor of Civil Engineering.

JOSEPH NEWTON GRAY NESBIT, E.E., E. and M. E., Professor of Experimental Engineering.

JESSE BOLAND EDWARDS, B.S., E. and M. E., Professor of Physics.

WILLIAM NATHAN RANDLE, Graduate of Philadelphia Textile School, Director of A. French Textile School; Professor of Engineering.

JOHN BASCOM CRENSHAW, A.M., Ph.D., Professor of Modern Languages.

SAMUEL STUART WALLACE, A.M., Pd.D., Professor of English.

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*Died October 23, 1912.

HARRY PETERMAN WOOD, B.S., E.E., Professor of Electrical Engineering.

*FLOYD FIELD, A.M., Professor of Mathematics.

FRANCIS PALMER SMITH, B.S., in Arch., Professor of Architecture.

WILLIAM ANDREW JACKSON, M.D., Director of Physical Culture; School Physician.

GILBERT HILLHOUSE BOGGS, B.S., Ph.D., Associate Professor of Chemistry.

*WILLIAM GILMER PERRY, A.M., Associate Professor of English.

*RICHARD HENRY LOWNDES, B.S. in M.E., Associate Professor of Drawing.

WILLIAM VERNON SKILES, A.M., Associate Professor of Mathematics.

WAYNE SAILEY KELL, E.M., Assistant Professor of Metallurgy and Geology.

ELBERT WILLIS GRIFFIN BOOCHER, A.M., Assistant Professor of English.

ALLAN BENTON MORTON, A.M., Assistant Professor of Mathematics; Dean Apprentice Class.

CHARLES JACKSON PAYNE, A.M., Assistant Professor of Physics.

EDMOND WEYMOND CAMP, B.S. in T.E., Assistant Professor of Textile Engineering; Assistant Director of Textiles.

LAWRENCE WASHINGTON MURPHY, B.S., Assistant Professor of Mathematics.

ELMER TAYLOR McCARTHY, M.E., Assistant Professor of Drawing.

HARRY HEBEN, Instructor in Textile Engineering.

CHARLES ALFRED JONES, B.S. in T.E., Instructor in Textile Engineering and Dyeing.

FRANK BEALL DAVENPORT, B.S. in E.E., Instructor in Electrical Engineering.

JEANNIE WHEWELL SPEAS, A.M., Instructor in Mathematics.

CHARLES GALLOWAY WOOD, A.M., Instructor in Chemistry.

JEREMIAH BASCOM REEVES, A.M., Instructor in English.

WILBUR MOORE JOHNSON, A.B., Instructor in Mathematics.

JAMES HERBERT GAILEY, M.S. in Arch., Instructor in Architecture.

EDWARD JOSEPH DUCEY, B.S. in C.E., Instructor in Civil Engineering.

EDWARD CHARLES GRUEN, M.E., Instructor in Drawing.

HERBERT ALBERT WEISS, M.E., Instructor in Drawing.

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*Absent on leave.

JAMES HUGH McKEE, Ph.B., Instructor in English.

ARTHUR HAMMOND ARMSTRONG, B.A., Instructor in English.

WILLIAM FARRAND OSBORNE, B.S. in M.E., Instructor in Experimental Engineering.

BENJAMIN BERGEN STRANG, B.S., Instructor in Mathematics.

BENJAMIN HARRISON FARQUHAR, A.M., Instructor in Mathematics.

SHIRLEY ERNEST FIELD, A.B., Instructor in Physics.

WILLIAM FERGUS KERNAN, A.B., Instructor in Modern Language.

JOHN LAURENCE DANIEL, A.M., Instructor in Chemistry.

ROBERT FOSTER BRADLEY, JR., A.B., Instructor in English.

WILLIAM ANDERSON ALEXANDER, B.S. in C.E., Instructor in Civil Engineering, Mathematics and English.

BENJAMIN FRANCIS PARLETT BRENTON, A.M., Instructor in Chemistry.

EDWARD HATCHER HUBERT, B.S. in E.E., Instructor in Experimental Engineering.

DAVID ERNEST PHILPOT, Instructor in Textile Engineering.

THOMAS RANDLE WEEMS, Instructor in Physical Culture.

EDWARD BENBOW MARTINDALE, Principal Foreman; Foreman of Machine Shop.

HORACE ALONZO THOMPSON, Foreman of Smith Shop.

WILLIAM VAN HOUTEN, Foreman of Foundry.

JOHN HENRY HENIKA, Foreman of Wood Shop.

WILLIAM FELDER GRIFFIN, Instructor in Machine Shop; Chief Engineer.

HOMER HARLAN NORMAN, Instructor in Wood Shop.

WILLIAM CLEVELAND ADAMSON, Instructor in Machine Shop.

HENRY PRINTUP, Instructor in Wood Shop.

JOSEPH WARREN PATTILLO, Instructor in Wood Shop.

AUGUSTUS THEODORE PEACOCK, Instructor in Machine Shop.

EDGAR LEON RHODES, Student Assistant in Physical Culture.

FRANK SAYLE ANDREWS, Student Assistant in Electrical Engineering.

EUGENE ALFRED TURNER, A.M., LL.B., General Secretary of the Young Men's Christian Association.

HARRY FULCHER COMER, B.S., Assistant Secretary Young Men's Christian Association.

HARRY G. ADAMS, Secretary to President.

GERTRUDE ADAMS, Stenographer to President.

ESTELLE ALLEN, Stenographer to Registrar.

AUGUSTUS GEORGE ALLEN, Steward of the Dining Hall.

STANDING COMMITTEES OF THE FACULTY.

The President is ex-officio a member of all standing committees.

Absences.—Professors Boogher, Crenshaw and Wood.

Accredited Schools.—Professors Branch, Field and Edwards.

Athletics.—Professors Randle, Nesbit and Dr. Jackson.

Buildings and Grounds.—Professors Coon and Lowndes.

Committee on Standing.—Professors Emerson, Skiles and Boggs.

Course of Study.—Professors Emerson, Branch and Skiles.

Deficiencies.—Professors Wallace, Boggs and Morton.

Honor System.—Professors Emerson, Wallace and Crenshaw.

Library.—Professors Boggs, Perry and Wood.

Rules and Regulations.—Professors Emerson, Branch and Randle.

Schedule Committee.—Professors Branch, Randle and Crenshaw.

STUDENTS, 1912-1913.

SENIOR CLASS.

Adams, O. P.	Newton
Andrews, F. S.	Fulton
Arrington, E. H.	Richmond
Ashley, D. C.	New York
Avera, A. U.	Arkansas
Berry, J. H.	Mississippi
Boyd, W. R.	Chatham
Brooks, F. P.	Chatham
Brooks, J. C.	Harris
Brown, J. T. L.	Houston
Brown, L. L.	Fulton
Brownson, V. C.,	North Carolina
Bryan, M. M.	Clarke
Bunn, G. F.	Polk
Carr, H. E.	Tennessee
Chalmers, J. C.,	North Carolina
Clarke, J. O.	Fulton
Clark, P. H.	Troup
Cook, H.	Newton
Crumley, C. L.	Fulton
Davis, T. W.	Coweta
Dennis, J. C.	Bibb
DuBose, J. R.	Fulton
Ely, C. C., Jr.	Chatham
Emerson, W. A.	Fulton
Estes, M. S.	Tennessee
Evans, L. B., Jr.	Richmond
Feldman, J. W.	Fulton
Flemister, S. A.	Newton
Frankle, S. D.	Fulton
Galphin, T. H.	Richmond
Goebel, A. S.	Chatham
Hall, H. J.	Fulton
Hammond, C. S.	Sumter
Hammond, W. P.	Fulton
Harris, R. M.	Henry
Hill, A. P.	Telfair
Hill, D.	Fulton
Hirsch, I. B.	Fulton
Hodges, S. N.	Houston
Holmes, W. C.,	North Carolina
Hope, Geo. M., Jr.	Fulton
Hughes, R. L.	Fulton
Jamison, M. A.	Fulton
Jewett, G. B., Jr.	Bibb
Kellogg, W. D.	Fulton
Laine, C. W., Jr.	Fulton
Lanham, F. H.	Floyd
Law, J. B., Jr.	Stewart
Loeb, A. L.	Fulton

Luehrman, H. - - - - - - Fulton
McCrary, H. S. - - - - - - Glynn
Maddox, G. L. - - - - - Spalding
Matthews, A. C. - - - - - Spalding
Miller, W. G. - - - - - - - - Fulton
Monsalvatge, R. F. - - - Fulton
Montague, A. F. - - - - - Fulton
Northcutt, G. H. - - - - - - Cobb
Philips, A. J. - - - - - - Fulton
Phinizy, J. - - - - - - Richmond
Porter, C. E., Jr. - - Muscogee
Rahner, M. L. - - - - - - Fulton
Reynolds, R. W. - - - Hancock
Roby, J. A. - - - - - - - - Jasper
Rockey, J. K. - - - - - - Fulton
Sams, R. F., Jr. - - - - - Fulton
Schroeder, J. H. - - - Chatham
Segel, H. - - - South Carolina
Stribling, A. L. - - - - - DeKalb
Thomason, E. K. - - - - Fulton
Van Epps, G. D. - - - - - Fulton
Ware, W. A. - - - - - - - - DeKalb
Wynee, A. M. - - - - - - Dodd

JUNIOR CLASS.

Adams, A. D. - - - - - - Newton
Adams, W. S. - - - -- Tennessee
Anthony, R. T. - - - - - Florida
Armstrong, W. R. - - - - - Fulton
Atkinson, R. C. - - - - - Coweta
Barron, H. T. - - - - - - Fulton
Bauer, R. L. - - - - - - - Fulton
Biggers, J. J. W. - - - Muscogee
Boland, L. C. M. - - - - - Fulton
Brindley, S. - - - - - - Alabama
Brooks, O. L. - - - - - - DeKalb
Brown, M. L., Jr. - - - - DeKalb
Carmichael, D. L. - - - Madison
Chapman, E. L. - - - - - - Bibb
Chapman, G. A. - - - - - DeKalb
Claxton, W. L. - - - - - - Macon
Clay, R. A. - - - - - - - Walton
Clayton, M. M. - - - - - - Fulton
Cone, M. S. - - - - - - Baldwin
Conklin, W. E. - - - - - - Fulton
Connell, E. W. - - - - - - Fulton
Crofoot, C. S. - - - - - - - Fulton
Darby, F. W. - - - - - - Toombs
DeLorme, A. C., South Carolina
Dunwoody, W. E., Jr. - - - Bibb
Epps, C. - - - - - - - - - - Clarke
Evans, W. D. - - - - - - Chatham
Everhart, E., Jr. - - - - - Fulton
Fitzsimmons, W. H., Jr., So. Car.
Forester, D. M. - - - - - - Fulton
Freeman, S. - - - - - - - Floyd
Gaines, F. C. - - - - - - - Hart
Gibson, T. A. - - - - - - Laurens
Hardy, L. S. - - - - - - Chatham
Harless, F. E. - - - - - - Fulton
Hearne, W. D. - - - Tennessee
Howe, M .C. - - - - - - Haralson
Howell, R. S. - - - - - - Greene
Huie, E. L. - - - - - - - - - Clayton
Hurlbut, D. L. - - - - - Tennessee
Jackson, W. H. - - - Richmond
Jones, D. C. - - - - - - - - - - Lee
Jordon, G. W., III, - - - Pulaski
Kaufman, L. - - - - - - Fulton
Kreider, F. B. - - - - - - Fulton
Law, J. D. - - - - - - - - Fulton
Lawton, W. P. - - - - - Fulton
Leinbach, J. R. - - - - - Walker
Lockwood, T. F., Jr. - Muscogee
Logan, J. A., Jr. - - - Chatham
Lott, M. W. - - - - - - - - - Ware
Lovell, W. V. - - - - - - Florida
McCulloch, H. K. - - - - - Texas
McMillan, D. M. - - - - - Baldwin
Milner, W. J., Jr. - - - - - Fulton
Mize, T. H. - - - - - - - - Jackson
Moore, J. L. - - - - - - Mississippi
Morgan, W. T., Jr. - - - - - Bibb
Moses, A. J. - - - - - - - - Coweta
Peacock, W. C. - - - - - - Florida
Pitchford, J. W. - - - - - Fulton
Pound, M. - - - - - - - - - Clarke
Powell, M. H. - - - - - - - Grady
Pye, J. W. - - - - - - - - - Talbot
Rand, F. L. - - - - - - Alabama
Ray, G. D. - - - - - - Hancock

Reifsnider, J. M., Jr. - Maryland
Schur, M. L. - - - - - - Chatham
Shackleford, F. L. - - - Chatham
Shackleford, R. A. - Tennessee
Shepherd, I. B. - - - Tennessee
Slaton, W. M. - - - - - - Fulton
Sloan, P. H. - - - - - - Chatham
Smith, B. - - - - - - - Campbell
Smith, F. H. - - - - - - Bulloch
Stegall, C. R. - - - - - - Walker
Stokes, J. D., Jr. - - - - Tift
Stumberg, W. R. - - - - Texas
Talley, T. T., - South Carolina
Taylor, S. H., Jr. - - - - Texas
Titshaw, E. P. - - - - Jackson
Trippe, G. - - - - - - - Taliaferro
Van Orsdale, A. A. - - - Fulton
Weaver, W. H. - - - - - - Fulton
White, R. H., Jr. - - - - Fulton
White, E. C. - - - - - - - Fulton
Whitner, T. C., Jr. - - - Fulton
Whittier, P. F. - - - - - - Fulton
Williams, E. E. - - - - - - Fulton
Williams, L. H. - - - - - - Florida
Williams, L. P. - - - - - - White
Williamson, R. E. - - - Jackson
Wilson, J. E. - - - - - - - Oconee
Woodruff, B. H., Jr. - - Newton
Wright, D. B. - - - - - - Fulton

SOPHOMORE CLASS.

Aichel, S. L. - - South Carolina
Anderson, L. K. - So. Carolina
Attridge, O. H. - - - - Tennessee
Ballew, W. W. - - - - - - Polk
Bannerman, R. L. - - - Florida
Barker, B. S. - - - - - - Douglas
Bass, G. J. - - - - - - - - Fulton
Benson, O. M. - - - - - - - Jasper
Boland, C. S. - - - - - - - Fulton
Boyd, R. - - - - - - - - - Bartow
Brenner, C. P. - - - - - - - Fulton
Bryan, P. D. - - - - - - - DeKalb
Bullen, J. A. - - - - - - Colorado
Burney, C. F. - - - - - - - Jasper
Butterfield, C. M. - Mississippi
Carman, E. H. - - - - - - Fulton
Cheney, H. W. - - - - - Lowndes
Clark, H. R. - - - - - - - - Fulton
Clark, R. A. - - - - - - - Catoosa
Claxton, J. H. - - - - - - - Macon
Clements, B. - - - - Meriwether
Cook, S. A. - - - - - - - Newton
Council, A. A. - - - - - - Telfair
Cox, J. W. - - - - - - - - Fulton
Craig, J. C. - - - - - - - - Fulton
Crutcher, F. B. - - - Mississippi
Cutliff, J. M. - - - - - Dougherty
Daniel, J. H. - - - - - - - Jenkins
Davidson, F. I. - - - - - - Jasper
Davidson, J. L. - - - - - - Brooks
Dillingham, C. W. - - - - Fulton
Dixon, M. W. - - - - - Chatham
Dillard, R. B. - - - - - - Fulton
Dodd, T. M. - - - - - - - - Fulton
Drake, R. A. - - - - - - Spalding
Drummond, E. L. - - - Chatham
Duggan, L. N. - - - - - Wilkinson
Eubank, W. B. - - - - - - Dodge
Everette, H. H. - - - - - Sumter
Farkas, P. - - - - - - Dougherty
Fielder, K. J. - - - - - - - - Polk
Ford, E. S. - - - - - - - Louisiana
Francis, A. P. - - - - - - Fulton
Franklin, C. W. - - - - - Bulloch
Fuller, J. E. - - - - - - - Coweta
Fulson, H. O. - - - - - - Fulton
Gantt, B. J. - - - - - - - - - Bibb
Gardien, R. B., Jr. - - - Fulton
Gardner, C. S. - - - - - - - Cobb
Gardner, J. J. - - - - - - - Cobb
Glover, R. P. - - North Carolina
Goldman, J. A. - - - Mississippi
Green, S. G. - - - - - - - - Jones
Greenfield, J. C., Jr. - - Fulton
Grimes, C. B. - - - - - Muscogee
Hallman, H. H. - - - - - Fulton
Harbin, R. M. - - - - - - Gordon
Hardy, S. H. - - - - - - - Fulton
Harlan, H. L. - - - - - - Fulton
Harris, H. H. - - - - - - - Henry
Hathorne, M. J. - - - - - Fulton
Herrington, H. L. - - - Jenkins

Hill, G. M. - - - - - - New York
Holcombe, P., Jr. - - - - Fulton
Hope, W. - - - - - - - - Fulton
Houston, C. E. - - - - Maryland
Howe, K. J. - - - - - - Haralson
Hunter, H. W. - - - - Tennessee
Hutchinson, J. B. - - - - Coweta
Hutton, M. B. - - - - - Chatham
Jay, L. P. - - - - - - - Randolph
Jordan, C. L. - - - - - - - Fulton
Jordan, H. H. - - - - - - Jasper
Kollock, M. C., Jr. - - - Fulton
Kwilecki, W. H. - - - - Decatur
Lamar, G. B. - - South Carolina
Lane, A. W. - - - - - - - - Bibb
Lang, R. M. - - - - - - Camden
Latimore, W. S. - - - Tennessee
Lucas, J., Jr., - - South Carolina
Lucas, J. H. - - - - - - Whitfield
Lyne, G. H. - - - - - Kentucky
McCullough, W. T. - - - Fulton
McKenzie, C. F. - - - Richmond
McKissick, E. S., South Carolina
McLemore, W. C. - Montgomery
McLin, J. B. - - - - - - - Fulton
McMekin, M. M. - - - - - Wilkes
Malone, R. G. - - - - - - Carroll
Marshall, W. P. - - - - Chatham
Means, E. B. - South Carolina
Merrill, K. A. - - - - - Florida
Miller, G. A., Jr. - - - - Florida
Mills, R. M. - - - - - - - Gordon
Montague, E. B. - - - - Fulton
Moore, J. S., Jr. - - - - Spalding
Moore, W. J. - - - - - - Houston
Newill, E. B. - - - - - - - Fulton
Norman, J. M. - - - - - Fulton
Odom, C. P. - - - - - Toombs
Osborne, J. B. - - - - - - Fulton
Palm, W. E. - - - - - - - Floyd
Parker, J. L. - - - - - - - Clarke
Payne, A. A. - - - - - - - Troup
Peloubet, W. F. - - N. Carolina
Perkins, F. A. - - - - - Richmond
Pharr, M. A. - - - - - - Wilkes
Pitts, J. N. - - - - - - - Newton
Raffo, D. O. - - - - - - - - Glynn
Rainey, H. W. - - - - - - Schley
Ramsey, J. B. - - - Tennessee
Raybon, P. F. - - - - - - Wayne
Reed, J. C. - - - - - - - Murray
Rhodes, E. L. - - - - - - - Hall
Ribble, K. P. - - - - - - Fulton
Riley, J. A. - - - South Carolina
Robinson, W. M. - - - Fulton
Robson, J. R. - - South Carolina
Rogers, H. O. - - - - - - - Fulton
Rolfe, R. M. - - - - - - - Texas
Sain, L. W. - - - - - - - Newton
Sams, B. J. - - - - - - - Fulton
Sellers, P. B., Jr., South Carolina
Simmons, J. A. - - - - - - Fulton
Singleton, P. C. - - - - Florida
Sloan, J. C. - - - - - - - Fulton
Sloan, W. P. - - - - - - - Henry
Smith, B. D. - - - - - - - Troup
Sneed, P. C. - - - - - - - Fulton
Sparks, G. H. - - - - - - - Fulton
Spier, W. P. - - - - - Jefferson
Staebler, C. A. - - - - Kentucky
Strickland, J. J. - - - - Clarke
Sutton, J. P. - - - - - - DeKalb
Taylor, G. C. - - - - - - - Fulton
Terrell, L. S. - - - - - - Clayton
Thompson, R. S. - - - - Fulton
Troy, W. A. - - - - - - - - Bibb
Tucker, W. R. - - - - - - Dawson
Turner, J. W. - - - - - - Floyd
Twitty, J. J. - - - - - - - Mitchell
Underwood, J. C. - - - - Decatur
Vaughan, V. G. - - - - - - Texas
Vinson, P. W. - - - - - - Florida
Walter, R. V. - - - - Richmond
Watters, L. G. - - - - - - Floyd
Watts, C. L. - - - - - - Arkansas
Watts, J. R., Jr. - - - - Fulton
Weddell, R. - - - - - - - Fulton
Westbrook, J. R. - - - Whitfield
Whitner, R. H. - - - - - - Fulton
Wier, V. N. - - - - - - - - Clarke
Witherington, I. F., N. Carolina
Wood, C. M. - - - - - - DeKalb
Wright, F. C. - - - - - - Floyd
Zellned, L. C. - - - - - - - Monroe

FRESHMAN CLASS.

Aiken, M. K.	Glynn
Allen, L., Jr.	Sumter
Andrews, T., Jr.	Muscogee
Baker, A. W.	Fulton
Baker, E. B.	Fulton
Baker, V. K.	Charlton
Barker, G. R.	Fulton
Battesham, W. F.	N. Carolina
Battle, R., Jr.	Fulton
Beard, P. E.	Muscogee
Benedict, L. K.	Florida
Binkley, O. H.	Maryland
Bond, B. C.	DeKalb
Boone, L. L., Jr.	N. Carolina
Bowden, H.	Meriwether
Boyer, S. D.	Texas
Bradley, F., Jr.	Alabama
Branson, G. R.	Tennessee
Brantley, E. P.	Pierce
Breen, R. E.	Wayne
Brice, W. O., Jr.	Louisiana
Brim, H. G.	Terrell
Brown, C. R.	W. Virginia
Brown, S. N.	Houston
Burbank, M. W.	Fulton
Burge, F. D.	Fulton
Burrus, E. P.	Muscogee
Calnan, J. J.	Glynn
Callanan, R. F.	W. Virginia
Camp, J. W.	Fulton
Camp, R. A.	Jackson
Carlson, H. F.	Florida
Causey, N. H.	Carroll
Chapman, A. B.	Alabama
Chappell, C. E.	Virginia
Clarkson, J. L.	Fulton
Clifton, A. P.	Toombs
Cluis, F. V.	Fulton
Cobb, A. A.	Tift
Coiner, M. D.	North Carolina
Collins, H. T.	North Carolina
Cox, C. C.	Fulton
Creson, R. F.	Tennessee
Crowell, W. R.	Muscogee
Davis, L. I.	Mississippi
DeLaney, A. G.	Alabama
Downing, J. F.	Fulton
Drake, C. G.	Campbell
Drake, R. H.	Spalding
Dunwoody, J. E., Jr.	Fulton
Durant, H.	Fulton
Ferguson, W. J.	Louisiana
Flanagan, H. C.	Florida
Fleet, R. S.	Fulton
Ford, H. C.	Mississippi
Fox, F. H.	Tennessee
Fox, T. J., Jr.	Fulton
French, J. M.	Fulton
Fulwood, C. W., Jr.	Tift
Gartrell, R. D.	Fulton
Gatewood, S. H.	Sumter
Gayle, S. A.	Muscogee
Gee, H. W.	Fulton
Geer, C. M.	Douglas
Glover, J. E., Jr.	Wisconsin
Goldman, E. L.	Mississippi
Goree, A. W.	Fulton
Grady, H. L.	Chatham
Graybill, L. A.	Washington
Greene, L. E.	South Carolina
Grimshaw, J. L.	North Carolina
Grist, A. C.	South Carolina
Gruber, C. M.	Florida
Gunn, C. O.	Taliaferro
Gunn, C. T.	Taliaferro
Hanes, J. C.	Clayton
Hardwick, J. C.	Fulton
Hardy, H. L.	Coweta
Harrison, E. B.	Chatham
Hawkes, W. M.	Sumter
Haygood, W. T.	Clark
Hellings, J. P.	Pennsylvania
Henderson, T. H., Jr.	Chatham
Henry, H. L.	Wilkes
Hoffman, E. P.	Fulton
Holland, J. M., Jr.	Florida
Holland, M. N.	Fulton
Holt, E. Y.	Bibb
Hooper, F. A., Jr.	Fulton
Howard, A. C.	Fulton
Howe, S. P.	Bibb
Huber, C. C.	Colquitt

Hunt, J. P.	Tennessee
Huntington, J. W.	Mississippi
Huson, L. B.	Fulton
Hutchings, F. G.	Colquitt
Illges, A., Jr.	Muscogee
Jackson, C. E.	Haralson
Jackson, E. M.	Richmond
Johnson, P. N.	Upson
Jones, F. L.	Troup
Jones, H. C.	Maine
Jones, O. V.	Maine
Jones, R. M.	Spalding
Jordan, R. C.	Louisiana
Kerr, J. R.	Florida
Kiplinger, C. G.	Fulton
Kirkpatrick, T. P.	Fulton
Klein, K. H. W.	Mississippi
Landers, D. W.	Bartow
Lee, K.	Mexico
Lester, R. E.	Grady
Little, R. P.	Jefferson
Lowi, A. R.	Mississippi
McDuffie, D. E.	South Carolina
McDuffie, J. C.	South Carolina
McMillan, J. D.	Florida
McNulty, R. H.	Muscogee
Macdonald, A.	DeKalb
Manley, H. P.	Whitfield
Manning, W. L.	Fulton
Mansfield, L. E.	Fulton
Marsh, H. N.	North Carolina
Martin, W. R.	Fulton
Mellichamp, J. P.	Fulton
Merriam, F. F.	Fulton
Miller, R. M.	Fulton
Mitchell, E. J.	Colorado
Mitchell, J. L.	Muscogee
Moore, C. L.	Bulloch
Moore, W. A.	Arkansas
Munoz, F. M.	Florida
Nicholson, W. B.	Decatur
Oehmig, E. W.	Tennessee
Oliphant, D.	Jefferson
Oliphant, P.	Jefferson
Paden, R. S.	Fulton
Pardo, R.	Mexico
Patillo, L. G.	Texas
Pattillo, T. B.	Texas
Ponder, C. B., Jr.	Fulton
Proctor, M. S.	Arkansas
Reilly, I., Jr.	Tennessee
Reynolds, W., Jr.	Fulton
Roberts, A. D.	Mississippi
Roberts, E. E.	Troup
Robertson, C. L.	California
Robinson, R. E.	Richmond
Rountree, A. J.	Brooks
Sancken, H.	Richmond
Scarboro, T. W.	Colquitt
Schlesinger, A. L.	Fulton
Schmid, L. H.	Illinois
Schwarz, H. E.	Louisiana
Scott, H. H.	Cuba
Seidell, T. G.	DeKalb
Semmes, L. D.	Tennessee
Sharpe, D. S.	North Carolina
Shehan, J. A.	Coffee
Small, G. J.	Mississippi
Smith, A. H.	Houston
Smith, A. P.	Campbell
Smith, C. H.	Campbell
Smith, D. O.	Fulton
Smith, E. O.	Muscogee
Smith, R. C.	Muscogee
Smith, J. S.	Louisiana
Snedeker, L. W.	Chatham
Span, I.	Chatham
Sparks, A. S., Jr.	Walker
Stanley, E. A.	Thomas
Stephens, C. S.	Troup
Stoffregen, C. W.	Floyd
Storer, H. S.	Chatham
Street, J. L.	Mississippi
Sullivan, M. A.	South Carolina
Tarpley, W. W.	Laurens
Taylor, F. B.	Florida
Tenebaum, J. P.	Fulton
Thomas, E. L.	Toombs
Thompson, J. E.	Fulton
Thornton, J. R.	Greene
Tillman, O. G.	Florida
Tisinger, T. F.	Carroll
Tedd, H. A.	Louisiana
Trawick, C. B.	Hancock

Tye, C. P. - - - - - - - - Fulton
Ungar, L. - - - - - - - Chatham
Victoreen, C. J. - - - - Alabama
Walden, C. O. - - - Washington
Wasson, Q. - - - - - - - - Texas
Watts, H. E. - - - - - - - Fulton
Wheaton, W. H. - - - Spalding
Whetchel, G. W. - - - - Coffee
Whitcomb, L. S. - - - - - Texas
White, F. M. - - - - Richmond
Whitfield, V. W. - - - - Mexico
Williams, A. L. - - - - Florida
Williams, T. H., Jr. - - DeKalb
Willingham, E. H. - - - McDuffie
Willis, J. W. - - - - - Louisiana
Wilson, L. A. - - - - - - - Fulton
Winn, T. D. - - - - - - - Thomas
Wolcott, J. W. - - - - Spalding
Wood, J. R. - - - - Washington
Woodard, A. P. - - - Tennessee
Wootten, H. S. - - - - - - Baldwin
Wooten, W. L. - - - - Columbia
Wren, W. J. - - - - - - Jefferson
Yopp, P. R. - - - - - - - - Fulton
Young, C. T. - - - - - - - Fulton
Younger, M. L. - - - Tennessee

CO-OPERATIVE CLASS.

Arnold, J. - - - - - - - - Fayette
Brown, C. H. - - - - - - - Morgan
Freeman, C. E. - - - - - - Walton
Hutson, R. D. - - - - Haralson
Jackson, E. E. - - - - Alabama
Levy, S. E. - - - - - - - - Fulton
Levine, K. - - - - - - - - Fulton
Smith, H. G. - - - - - - - Early
Strother, A. C. - - - - - - Florida
Summerlin, I. W. - - - Haralson
Wolfe, F. W. - - North Carolina
Youmans, T. H. - - - - - - Floyd

SPECIAL TEXTILE No. 1.

Amason, H. W. - - - Oglethorpe
Battey, H. - - - - - - - Chatham
Bryson, T. A., Jr. - - Chatham
Elmer, E. E. - - - - Mississippi
Hamilton, L. A. - - - - - - Macon
Holliday, J. W. - - - - - - Fulton
Hudgin, T. B. - - - - - - Clarke
Leonhardt, A. E. - - Tennessee
Love, H. N. - - - - - - - - Fulton
McCord, D. E. - - - - - - Fulton
Montague, J. T. - - - - - - Fulton
Roan, W. E. - - - - - - Campbell
Whittlesy, P. E., Jr. - Muscogee

SPECIAL TEXTILE No. 2.

Adair, C. A. - - - - - - - Fulton
Colley, C. S. - - - - - - - Coweta
Davis, R. E. - - - - - - Tennessee
Floyd, T. B., Jr. - - - Chatham
Grouse, H. C. - - - - - - Chatham
Smith, T. F. - - - - - - Alabama

SPECIAL ARCHITECTURE.

Bailey, S. P. - - - - - - - Ware
Cole, A. N. - - - - - - - Florida
Latta, C. B. - - - - - - Spalding
Russell, J. M. - - - - Richmond

APPRENTICE CLASS.

Alexander, J. C. - - - Muscogee
Ammen, I. G. - - - - - - Sumter
Anderson, W. A. - - - - Florida
Barrentine, M. B. - S. Carolina
Barry, E. J. - - - - - - - DeKalb
Bird, S. - - - - - - - - Effingham
Boykin, B. - - - - - - - - Fulton
Boykin, F. L. - - - - - - - Fulton
Bradbury, J. A. - - - - - - Fulton
Bratton, G. C. - - - - - - - Fulton
Brown, G. M., Jr. - - - - Fulton
Burks, H. - - - - - - - - Fayette
Butzloff, Jr. - - - - - - Florida
Cobb, T. R. R. - - - - - - Fulton

Colquitt, W. W., Jr.	Chatham
Coney, W. D.	Glynn
Cowles, A. C.	Fulton
Crane, J. S.	Fulton
Crenshaw, T. H., Jr.	Fulton
Delbridge, T. J.	Fulton
Donaldson, J. M.	Fulton
Ellis, J. L., Jr.	South Carolina
Evans, H. L.	Madison
Flagg, J. C.	Virginia
Foy, S. A.	Alabama
Gambill, G. W.	Dodge
Gibson, H. L.	DeKalb
Greenslade, W.	Fulton
Griffin, C.	Fulton
Hammond, S. D.	Polk
Hanlin, J. S.	Fulton
Harris, W. H.	Fulton
Harrison, J. C.	Macon
Hawkins, B. H.	Sumter
Hawkins, T. H., Jr.,	Oglethorpe
Hickman, B. B.	Hall
Hopkins, W. J., Jr.	Illinois
Janney, H. S.	Alabama
Jansen, Joseph, Jr.	DeKalb
Johnson, C. S.	Richmond
Johnson, G. C.	Fulton
Johnson, H. H.	Fulton
Kenimer, G. A.	White
Kiene, Wm.	Glynn
Kuniansky, I.	Fulton
Looney, J. L.	Louisiana
McMillen, W. V.	Fulton
Mann, J. T.	Clayton
Martin, R. A.	Fulton
Mather, C. R.	Fulton
Mather, J. A.	Fulton
Maupin, R. H.	Fulton
Meadors, J. W.	Newton
Mitchell, J. T.	Fulton
Mitchell, M. D.	Stephens
Moore, M. N.	Fulton
Morton, F. S.	Clarke
Nesbit, N. H.	Gwinnett
Newbanks, E. H.	Fulton
Pearson, D. W.	Tattnall
Peebles, J. L.	Grady
Pease, V.	Muscogee
Ray, J. M.	Hancock
Robinson, J. M., Jr.	Louisiana
Shaw, J. W.	Florida
Slaton, J. M., Jr.	Fulton
Stephenson, L. L. Jr.,	Alabama
Stone, R. A.	Jefferson
Stribling, R. W.	DeKalb
Tanner, R. M.	Fulton
Tappan, Geo. W., Jr.	Greene
Thompson, B. S.	N. Carolina
Thompson, M. O.	Florida
Thornton, Wm.	Fulton
Towers, A. R.	Alabama
Turner, C. E.	Arkansas
Venable, W. H.	DeKalb
Verdier, Wm.	Fulton
Warnock, F. E.	Fulton
West, B.	Fulton
Willett, H. M., Jr.	Fulton
Womack, H.	Muscogee
Woodson, M. S.	Fulton
Woolley, B. M., Jr.	Fulton
Woolley, V., Jr.	Fulton
Woolfolk, A. S.	Muscogee
Wrench, F. A., Jr.	Whitfield
Wright, E. E.	South Carolina
Young, W. G.	McIntosh

NIGHT SCHOOL.

Abbott, F. A.
Abernathy, N.
Albright, W. H.
Aldringer, K.
Baker, L. L.
Beattie, H.
Bedell, W. R.
Beddinger, W. E.
Beshers, W. H.
Bishop, E. C.
Bird, H. S.
Bleim, C. J.
Booth, E. F.
Borrowsky, J. E.
Bradley, C. F.
Brown, L.
Brown, W. H.
Bryan, H.
Burger, K. H.
Camp, D.
Carlton, H. A.
Casey, H. J.
Carver, H. N.
Casaccio, P.
Center, G. E.
Chester, E. E.
Clarke, G. C.

Clower, P. L.
Cooledge, H. N.
Coles, B. F.
Corbe, W. J., Jr.
Davis, E. K.
Drake, D. W.
Dunn, G. D.
Eaves, W.
Escott, J. E.
Feagin, C. W.
Feagin, J. W.
Fisher, F. K.
Fuller, W. R.
Gentry, G. M.
Garwood, S. N.
George, N. L.
Granath, A. E.
Grogan, H. A.
Hale, R.
Hardin, A. D.
Hargrave, J. D.
Harris, J. R.
Haynes, M. M.
Henderson, G.
Hiers, W. B.
Holmes, A. S.
Holmes, LeRoy.
Hughes, C.
Irwin, J.
Jackson, J. E., Jr.
King, S. S.
Kingston, J.
Kruger, C. E.
La Hatte, J. A.
Landrum, E. M.
Lapsley, R.
Largen, J. W.
Lites, G. E.
Little, D. T.
Lowry, E. J.
Luther, E. L.
Lyle, C.
Lyle, R. E.
Mailey, J. W.
Marchbanks, G. H.
Martin, L. F.
Mathis, W. R.
Matson, W.
Mitchell, R. E.
Moeckel, C. S.
Moffett, C.
Morgan, H. R.
Muller, W. G.
McAuley, M. M.
McKinney, F. C.
McKown, R. C.
McLeskey, W. J.
Neely, J. H.
Nivers, W.
Norton, R. B.
Orthaber, A.
Osborne, H. P.
Osman, M. M.
Paden, D. S.
Parker, W. H.
Pappers, L. W.
Persons, C. L.
Philartes, G.
Philips, J. W.
Potts, B.
Potts, J. S.
Rambo, O. O.
Randall, J. C.
Randall, L. H.
Raoul, W. P.
Rich, G. P.
Wynne, H. L.
Rivers, W. J.
Robinson, H.
Rossman, W. H.
Russell, J. G.
Sanders, T. C.
Sanford, J.
Scarbrough, J. F.
Scofield, E. C.
Schuster, R.
Servier, J. F.
Sewell, R. T.
Sheats, H. E.
Shelton, J.
Soellner, S. A.
Stovall, J. R.
Stroup, J. B.
Szuch, C.
Thomason, C. T.
Thurmond, H. R.
Walker, W. M.
Waters, T. M.
Whatley, B.
White, E. R.
Wikle, R. H.
Willingham, A. S.
Wills, H. L.
Woffard, S. S.
Wrigby, J. T.

SUMMER SCHOOL.

Adams, W. S.
Armstrong, W. R.
Atkinson, R. C.
Barnes, P.
Barry, E. J.
Battey, H.
Battle, R.
Bauer, R. L.
Boland, C. S.
Bradbury, J. A.
Brown, G. M.
Brown, L. L.
Bryson, T. A.
Camp, R. A.
Chapman, E. L.
Chapman, G. A.
Cheves, T. X.
Cobb, T. R. R.
Coney, W. D.
Cowles, A. C.
Crenshaw, T. H.
Crofoot, C. S.
Davis, J. T.
Dillingham, C. W.
Durant, H.
Estes, M. S.
Everette, H. H.
Freeman, S.
French, J. M.
Galphin, T. H.
Gardien, R. B., Jr.
Gibson, H. L.
Graybill, L. A.
Greene, L. E.
Hanes, J. C.
Hanlin, J. S.
Hardy, L. S.
Harless, F. E.
Harris, H. H.
Harris, W. H.
Hearn, W. D.
Hill, D.
Hope, G. M.
Hope, W.
Hopkins, W.
Hughes, R. L.
Huie, E. L.
Hurlbut, D. L.
Hutton, M. B.
Jewett, G. B.
Jones, R. M.
Jordan, H. H.
Kwilecki, W. H.
Laine, G. W.
Lanham, F. H.
Law, J. D.
Manning, W. L.
Mansfield, L. E.
Mather, J. H.
McCrea, A. S.
McCrea, J. E.
McDonough, J. K.
McKissick, E. S.

Merriam, F. F.
Montague, A. F.
Moore, J. L.
Munoz, F.
Nesbit, N. H.
Newbanks, E. H.
Parker, J. L.
Patillo, L. G.
Perkins, F. A.
Ponder, C. B.
Porter, C. E.
Quevedo, M. G.
Rand, F. L.
Rhodes, L. B.
Robinson, J. N.
Robson, J. R.
Roby, J. A.
Rodgers, H. O.
Schlesinger, A. L.
Semmes, L. D.
Simmons, J. A.
Sloan, P. H.
Small, G. J.
Smith, B.
Smith, H. G.
Smith, J. S.
Sparks, A. S.
Stroffregen, C. W.
Talley, T. T.
Taylor, F. P.
Taylor, G. C.
Thompson, J. E.
Thompson, R. S.
Titshaw, E. P.
Todd, H. A.
Trawick, C. B.
Twitty, J. J.
Tye, C. P.
VanOrsdale, A. A.
Watts, H. E.
West, B.
Wheaton, W. H.
Whitcomb, L. S.
Whittier, P. F.
Wilkinson, J. R.
Williams, E. E.
Willmarth, C. A.
Wolcott, J. W.
Woolley, B. M.
Womack, H. G.

SUMMARY OF REGISTRATION.

Senior Class	73
Junior Class	95
Sophomore Class	156
Freshman Class	212
Coöperative, First Year	12
Special T. E. No. 1	13
Special T. E. No. 2	6
Special Architects	4
Apprentice Class	89
Total	660

Night School	132
Summer School	113
	905
Deduct names counted twice	100
Total enrollment	805

TABLE

Occupation of Parents or Guardians of 660 Students, Georgia School of Technology.

Occupation.	No.
Bankers	12
Druggists	6
State Officers	22
Contractors	19
Farmers	83
Merchants	126
Insurance Men	19
Manufacturers	42
Lawyers	24
Physicians	23
Cotton Merchants	18
Teachers	19
Railway Agents	25
Engineers	20

Traveling Salesmen	32
Workmen	42
Miscellaneous	128
Total	660

Total number of graduates	546
Number deceased	11
Number of living graduates	535
Graduate Mechanical Engineers	229
Graduate Electrical Engineers	161
Graduate Textile Engineers	78
Graduate Civil Engineers	48
Graduate Engineering Chemistry	17
Graduate Chemicals	3
Graduate Architecture	10
Total	546

Graduates in business as follows:

General Engineering	32
Mechanical Engineering	153
Electrical Engineering	139
Textile Engineering	56
Civil Engineering	66
Engineering Chemistry and Chemistry	29
Merchandise, Real Estate and Agencies	16
Teachers	20
Physicians	4
Lawyers	1
Army Officers	6
Farmers	5
Ministers	2
Advanced Students in other Institutions	6
Total	535

The Mechanical Engineering Degree was established when the School began in 1888; the Degrees of Electrical and Civil Engineering in 1896; the Degree of Textile Engineering in 1898; the Degree of *Mining Engineering and Chemistry in 1906; and the Degree of Architecture in 1908.

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*N. B. Mining Engineering discontinued for the present.

THE GEORGIA NORMAL AND INDUSTRIAL COLLEGE

(FOR GIRLS)

MILLEDGEVILLE, GA.

GEORGIA NORMAL AND INDUSTRIAL COLLEGE.

BOARD OF DIRECTORS.

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DR. E. A. TIGNER, Secretary	Milledgeville.
HON. MILLER S. BELL, Treasurer	Milledgeville.
DR. R. E. GREEN	Gainesville.
HON. W. H. DAVIS	Waynesboro.
HON. Z. H. CLARK	Moultrie.
HON. JOHN B. HUTCHESON	Ashburn.
JUDGE SAMUEL B. ADAMS (ex-officio)	Savannah.
HON. HENRY R. GOETCHIUS (ex-officio)	Columbus.
HON. J. W. BENNETT (ex-officio)	Waycross.

BOARD OF VISITORS.

First Congressional District—Mrs. P. W. Meldrim, Savannah.
Second Congression District—Mrs. Jno. N. Donaldson, Bainbridge.
Third Congressional District—Mrs. J. E. Hayes, Montezuma.
Fourth Congressional District—Mrs. W. Y. Atkinson, Newnan.
Fifth Congressional District—Mrs. Sam D. Jones, Atlanta.
Sixth Congressional District—Mrs. Lloyd Cleveland, Griffin.
Seventh Congressional District—Mrs. J. Lindsay Johnson, Rome.
Eighth Congressional District—Miss Bessie Butler, Madison.
Ninth Congressional District—Mrs. Walter B. Hill, Clarkesville.
Tenth Congressional District—Mrs. H. N. Franklin, Tennille.
Eleventh Congressional District—Mrs. J. N. Griffin, Valdosta.

FACULTY FOR 1912-13.

M. M. PARKS, President.

Graduate of Emory College, A.B., 1892; Graduate Student University of Chicago, 1895; Graduate Student Harvard University, 1896; Student Summer Session, University of Chicago, 1895, 1896, 1897, 1898, 1899, 1900; Professor in Andrew College, 1892-94; Professor in Wesleyan College, 1896-97; Instructor in High School, Savannah, 1897-1903; Professor in Georgia Normal & Industrial College, 1903-04; Acting President Georgia Normal & Industrial College, 1904-05; President Georgia Normal & Industrial College, 1905-13; Lecturer Summer Session University of Tennessee, 1902; University of Georgia, 1903; University of Chicago, 1903; University of Nashville, 1904; University of Tennessee, 1904; University of Georgia, 1904; President Georgia Educational Association, 1905; Author Letters "Around the World," published in Atlanta Journal, 1909-10.

J. L. BEESON, Professor of Chemistry and Physics.

Graduate University of Alabama, 1889; A.M., ibid, 1890; Johns Hopkins University, Ph.D., 1893; Harvard University, Summer, 1900; Assistant Professor of Physics, University of Alabama and Chemist of Alabama Geological Survey, 1889-90; Professor of Natural Science, Shorter College, 1891-92; Research Chemist of Louisiana Sugar Experiment Station, and Professor of Chemistry Louisiana School of Sugar, 1893-96; Professor Natural Science, Bethel College, 1896-97; Professor-elect of Chemistry, State Agricultural College of Kansas, 1897; Instructor Summer School, 1909; Professor Natural Science, Georgia Normal & Industrial College, 1897-1913.

EDMUND MARCH VITTUM, Professor of English.

A.B., Dartmouth, 1878; B.D., Yale, 1884; A.M., Dartmouth. 1888; D.D., Iowa, 1893; Principal High School, Glover, Vt., and Canada, N. H.; Tutor Mathematics, Robert College, Constantinople, Turkey, 1878-1880; Professor same, 1880-81; Teacher English, Russell's Military School and Grove Hall, New Haven, Conn.; Student Yale University, 1881-84; Pastor and Acting Superintendent of School, Guilford, Conn., 1884-88; Pastor and Lecturer in Coe College, Cedar Rapids, Iowa, 1888-1891; Pastor College Church, Grinnell, Iowa, 1891-1906; President Fargo College, Fargo, N. D., 1906-09; Professor of English, Georgia Normal and Industrial College, 1910-13.

EDWIN H. SCOTT, Professor of Agriculture and Biology.

Graduate Massachusetts Agricultural College, B.S., 1906; Instructor in High School, Northampton, Massachusetts, 1903-04; Principal Evening Drawing School, Northampton, Mass., 1905; Principal of Agricultural High and Graded Schools, Petersham, Mass., 1906-08; Registrar and Instructor, Massachusetts Summer School of Agriculture for Teachers, 1907; Instructor in Pedagogy of Agriculture, Connecticut Summer School for Teachers, Starrs, Conn., 1909; Student Dartmouth Summer School, 1910 and 1911; Professor Agriculture and Biology, Georgia Normal & Industrial College, 1908-13.

H. J. GAERTNER, Professor of History and Assistant Professor of Mathematics.

Ohio Northern University, B.S., 1888, M.S., 1891, Ped.D.; Indiana University, A.B., 1892; Ohio Wesleyan University, A.M., 1896. Superintendent Deshler, Ohio, Public Schools, 1887-91; Assistant Principal, Danville, Illinois, 1892-93; Professor Mathematics, Indiana Normal College, Covington, Indiana, 1893-94; Professor Mathematics and Astronomy, Wilmington College, Wilmington, Ohio, 1894-96; Superintendent, Perrysburg, Ohio, 1896-97; Principal Fairburn Academy, Fairburn, Ga., 1897-98; Principal, Newnan, Ga., High School, 1898-1900, also 1901-02; Co-founder G. M. A., College Park, Ga., 1900; Superintendent Lithonia, Ga., 1903-05; Superintendent Waynesboro, Ga., 1905-07; Principal Glynn Academy, Brunswick, Ga., 1907-08; Instructor University Summer School, Athens, Ga., 1906, 1909, 1911; Professor of History and Assistant Professor of Mathematics, Georgia Normal and Industrial College, 1908-13.

AMBROSE L. SUHRIE, Professor of Pedagogy.

Ph.B., John B. Stetson University, 1906; A.M., University of Pennsylvania, 1911; Ph.D., (in Pedagogy) ibid. 1912; Graduate Pennsylvania State Normal School, B.E., 1894; M.E., ibid. 1896; Public School Service in Pennsylvania, 1894-1902; Student College of Education, University of Chicago, summer session, 1906. Director of Normal School and Instructor in Pedagogy, John B. Stetson University, DeLand, Florida, 1905-1907; Director of Normal School and Teachers' College, and Professor of Pedagogy ibid. 1907-1910; Manager Stetson-DeLand Shakespearean, Festival, 1910; George Lieb Harrison Fellow in Pedagogy, Graduate School, University of Pennsylvania, 1910-1912; President Graduate School Club, ibid, 1911-1912; Special Lecturer in School Administration and Educational Rersearch Summer School, University of Pennsylvania, 1911 and 1912; Author of The Inductive Determination of Educational Method; Professor of Pedagogy, Director of the Normal Department, Georgia Normal and Industrial College, 1912.

ALICE NAPIER, Department of Mathematics.

Student Wesleyan Female College; Graduate Peabody Normal College; Harvard and Chicago Summer Schools; Teacher Georgia Normal & Industrial College, 1893-1906; Department of Mathematics, 1906-13.

CORA McLEOD BECK, Department of Latin.

Graduate of Cox College, A.M., 1893; Student University of Georgia Summer Sessions, 1902, 1904; Summer School Chautauqua, N. Y., 1898, 1900, 1906; Summer Quarter, University of Chicago, 1908; Teacher of Latin and English, Washington Public Schools, 1897-1908; Georgia Normal & Industrial College, 1908-13.

NAN HARVEY BARKSDALE, Assistant Department of English.

Graduate Georgia Normal and Industrial College; Student Teachers' College, Columbia University, 1910-11; Scholarship, ibid. 1911; Graduate ibid. 1912, B.D., in Education, Diploma in the Teaching of English; Student at Summer School of the South, Knoxville, Tenn., Chautauqua Summer School, Chautauqua, N. Y.; Harvard University, Columbia University. Teacher Fort Valley Public Schools; High School Literature and Composition, University of Georgia Summer School, 1912; Georgia Normal and Industrial College, 1903-10; 1911-13.

ALLENE THOMAS MOON, Assistant Department of English.

Graduate of Wesleyan Female College, A.B.; Graduate of Teachers' College, Columbia University, B.S., and Diploma in Teaching of English; Teacher in Live Oak, Fla., Public School; Teacher of English and History in Kissimee, Fla., Public School; Assistant Teacher of English, Georgia Normal and Industrial College, 1910-13.

RUENA G. WEST, Department of Physical Training.

Student Oswego Normal College; Graduate Scientific Course, Oneonta Normal College; Graduate New York Normal School of Physical Education, 1907; Special Course in First Aid to Injured; Special Course in Folk-lore Games and Dances, New York University; Teacher in High School, Deposit, N. Y.; Physical Training Director, Normal & Industrial College, N. C.; Director Physical Training, Georgia Normal and Industrial College, 1908-13.

KATE THRASH, Department of Bookkeeping.

Graduate Georgia Normal and Industrial College; Student Eastman Business College; Teacher Griffin Public Schools, 1895-1901; Department of Bookkeeping, Georgia Normal and Industrial College, 1901-13.

FLORENCE BARNETT, Department of Stenography and Typewriting.

Student Presbyterian College for Women, Charlotte, N. C.; Principal Pleasant Hill High School, Pleasant Hill, N. C.; Teacher Public Schools, Spartanburg, S. C.; Student Asheville Business College, Asheville, N. C.; Secretary to President, Bethesda Academy, Limestone, Tenn.; Teacher of Stenography and Typewriting, Georgia Normal and Industrial College, 1909-13.

HELEN B. HOOVER, Department of Free-Hand Drawing.

Student Columbus Art School, 1903-07; Graduate Columbus Art School, 1907; Student Pratt Institute, 1908-09; Graduate Normal Art and Manual Training, Pratt Institute, 1909; Teacher Free-Hand Drawing, Georgia Normal and Industrial College, 1909-13.

EMILE RUECKER, Assistant Department Free-Hand Drawing and Manual Training.

Student Rhode Island School of Design, Providence, R. I.; Graduate Pratt Institute, Brooklyn, N. Y.; Assistant Teacher of Free-Hand Drawing and Manual Training, Georgia Normal and Industrial College, 1910-13.

MARJORIE WILLARD LAMBERT, Instructor in Poultry Husbandry and Horticulture.

Student Massachusetts Agricultural College, 1905-08; Special student Cornell University, 1908-10; Practical Poultry Farming, 1910-1911. Instructor in Poultry Husbandry, Horticulture nad Botany, Georgia Normal and Industrial College, 1911-13.

MAUDE WILLIAMSON, Instructor in Physics and Chemistry.

A.B., University of Illinois, 1909; Instructor in Mathematics, Hardin College, Mexico, Mo., 1909-1911; Instructor in Physics and Chemistry, Georgia Normal and Industrial College, 1912-1913.

L. R. GODFREY BURFIT, Normal Department, Principal of Training School.

Graduate Boston Kindergarten Normal, 1899; Graduate Teachers College, Columbia University, 1903; Student and candidate for M.A. degree Columbia University, 1910-1911. Teacher of Kindergarten and Primary, Orange, N. J., Public Schools, 1903-06; Teacher in Department of History in Orange, N. J., Public Schools, 1906-10; Supervisor Vacation School, New York City, 1908-12; Grammar Critic, Training School, Georgia Normal and Industrial College, 1911-12; Principal Training School, Georgia Normal and Industrial College, 1912-13.

MARY READE SMITH, Normal Department, Supervisor Intermediate Grades.

Graduate of Nobel Institute, Alabama Dioscesan Schools for Girls; Student of Randolph-Macon Womans College; Student Summer Session, Columbia University, 1908; Student at Teachers College, Columbia University, 1910-1911. Graduate in Elementary Supervision of Teachers College, 1911. Teacher, City Schools, Anniston, Ala.; Teacher in Model School, Union Theological Seminary, New York City, 1910-1911; Normal Training Teacher, Georgia Normal and Industrial College, 1911-13.

LAURA EMILY MAU, Normal Department, Supervisor Primary Grades.

Graduate State Normal School, Mankato, Minn.; Ph.B., State Teachers College of Colorado; B.S., M.A., Columbia University; Graduate Student, University of Chicago, 1911-12. Georgia Normal and Industrial College, 1912-13.

JULIA BETHUNE, Assistant in Training School.

Graduate Georgia Normal and Industrial College, 1909; Student Summer School Chautauqua, N. Y., 1911. Assistant in Training School, Georgia Normal and Industrial College, 1909-11.

EDA LORD MURPHEY, Department of Domestic Science.

Graduate Ferry Hall, Lake Forest, Ill.; Assistant Ferry Hall, also Harcourt Place School, Gambier, Ohio; Graduate Stout Institute, Menominie, Wis.; Summer Session Teachers' College, Columbia University; Short Course Instructor in Extension Department, Iowa State College, Ames, Iowa; Lecturer and Demonstrator, Kentucky State Agricultural Train; Department of Domestic Science, Georgia Normal and Industrial College, 1912-13.

AMY R. GOTT, Assistant Department of Domestic Science.

Graduate Home Economics Department, Milwaukee-Douner College, Milwaukee, Wis., 1905; Graduate Domestic Science Department, Stout Institute, Menominie, Wis., 1906; Teacher of Domestic Science Public Schools, Bluffton, Ind., 1907-08; Teacher Domestic Science, Public Schools, Escanaba, Mich., 1909-10; Teacher Georgia Normal and Industrial College, 1910-13.

ORIE S. WHITAKER, Assistant in Domestic Science.

Graduate Georgia Normal and Industrial College, 1908; Student Columbia University Summer Session, 1911; Assistant in Domestic Science, Georgia Normal and Industrial College, 1909-11; Teacher of Domestic Science, Eleventh District Agricultural School, Douglas, Ga., 1911-1912; Assistant in Domestic Science, Georgia Normal and Industrial College, 1912-1913.

REBECCA LITTLE, Assistant in Domestic Science.

Graduate Georgia Normal and Industrial College, 1910; Student Columbia University, Summer Session, 1912; Assistant in Domestic Science, Georgia Normal and Industrial College, 1910-13.

LORA BERTHA ABLE, Department of Domestic Arts.

Student Winthrop Normal and Industrial College, Rock Hill, S. C.; Student Teachers' College, Columbia University, New York City; Instructor one session Monroe Normal and Industrial College, Forsyth, Ga.; Eleven sessions Winthrop Normal and Industrial College, Rock Hill, S. C.; State Summer School of South Carolina; Georgia Normal and Industrial College, 1911-1912.

MABRY HARPER, Assistant Department of Domestic Art.

rGaduate Georgia Normal and Industrial College, 1899; Post-graduate student in Domestic Art, ibid, 1910-1911; Student University of Tennessee, Summer Session; Student Columbia University, N. Y., summer session; Teacher of English, Hartwell Institute, Hartwell, Ga., 1900-01; Teacher in grades, Columbus Public Schools, Columbus, Ga., 1901-09; Assistant Department of Domestic Art, Georgia Normal and Industrial College, 1911-12.

CATHARINE A. TURNER, Assistant in Domestic Art.

Graduate Georgia Normal and Industrial College, 1911; Assistant in Chemistry and Domestic Art, Georgia Normal and Industrial College, 1911-1913.

OLIVIA SMENNER, Assistant in Domestic Art.

Graduate Georgia Normal and Industrial College, 1911; Student Columbia University, summer session, 1912; Assistant in Domestic Art, Georgia Normal and Industrial College, 1911-1913.

ALICE LENORE TUCKER, Director of Music.

Graduate Springboro High School, Springboro, Pa.; Graduate Edinboro State Normal School, degree M.E., State Normal School, Edinboro, Pa.; Graduate Chautauqua Literary Scientific Circle, Chautauqua, N. Y.; Graduate New England Conservatory of Music, Boston, Mass.; Student in Piano under Signor Guiseppe Buonamici, Florence, Italy; Student in Voice under Signor Luigi Vannuccini, Florence, Italy; Taught Blairsville College, Blairsville, Pa., 19100; Edinboro State Normal School, 1901-04; Corry, Pa., 1905-06; Demorest, Ga., Piedmont College, 1907; Georgia Normal and Industrial College, 1907-13.

JENNIE M. WELLER, Teacher of Piano and Teacher of Public School Music in Training School.

Graduate of the Kansas State University, Graduate of the New England Conservatory of Music, Boston, Mass., in Pipe Organ and Public School Music; Post-Graduate New England Conservatory of Music, 1899-1900; Director of Music East Greenwich Academy, East Greenwich, R. I., 1900-08; Georgia Normal and Industrial College, 1908-13.

MRS. E. R. HINES, Teacher of Piano.

Pupil of Alfredo Barili; Pupil of John Porter Lawrence (Leipsic). Graduate Georgia Normal and Industrial College, 1906; Assistant Teacher of Music, 1906-13.

MARY ELEANOR McCANN, Teacher of Piano.

Graduate of the Zanesville, Ohio, High School, Greek and Latin Course; Special Student, Denison University, Granville, Ohio; Graduate Shepardson College, Conservatory, Densison University; Graduate Chicago Piano College. Teacher in Public Schools of Georgia and Mississippi; Teacher of Piano, Brewton, Ala.; Teacher of Piano, Georgia Normal and Industrial College, 1908-13.

MABEL EVANS, Assistant in Piano and Voice.

Graduate Georgia Normal and Industrial College, 1910. Assistant in Piano, 1910-1911. Student New England Conservatory of Music, 1911-1912. Assistant in Piano and Voice, Georgia Normal and Industrial College, 1912-1913.

MRS. M. S. LAWRENCE, Matron Mansion Dormitory.

MRS. SARAH P. CAMPBELL, Matron Lamar Hall Dormitory.

MRS. M. S. COOK, Matron Atkinson Hall Dormitory.

MRS. A. S. HARWELL, Matron Science Hall Dormitory.

MRS. E. B. DOBIER, Matron Dozier House Dormitory.

MISS BESSIE TATUM, Assistant Housekeeper Atkinson Hall Dormitory.

MISS KATE TAYLOR, Housekeeper Mansion Dormitory.

DOVE WHITE, Assistant in English.

HOYLE SKINNER, Assistant in Domestic Science.

MAMIE PADGETT, Assistant in Manual Training.

FRANCES LOWE, Assistant in Agriculture and Biology.

LEONORA IVEY, Assistant in Physical Training.

EAKES GEORGE, Assistant Training School.

BLANCHE TAIT, Assistant Training School.

TILLIE SMITH, Assistant Training School.

ALICE PARKER, Assistant Training School.

EXA BENNETT, Assistant Training School.

BIRDIE ELLARD, Librarian.

ABNER STROZIER, Stenographer.

L. S. FOWLER, Bookkeeper.

JANIE WALL, Assistant Bookkeeper.

G. M. KEMP, Engineer.

J. N. BUTLER, Watchman.

HISTORICAL.

The Georgia Normal and Industrial College was created by a special act of the Georgia Legislature passed in the summer of 1889. The bill for its establishment was introduced into the lower house of the Legislature by the late lamented Hon. William Y. Atkinson, then a representative from Coweta County, and afterwards for two terms Governor of the State. He was president of its Board of Directors from its foundation up to the day of his death, and he was always most zealously devoted to its interests.

The corner-stone of the main building was laid on November 27, 1890, with impressive ceremonies, and the edifice was pushed rapidly to completion.

On Monday, September 30, 1891, the College was formally opened, and the work of the first session began. During that session 171 students were enrolled, coming from seventy-five counties in Georgia. Ever since the beginning of the second annual session the School has been crowded and nearly every year many applicants for admission have been turned away for want of room.

These facts prove conclusively that there was great need in Georgia for an institution for the professional and industrial education of women, and that the Georgia Normal and Industrial College is in a large measure supplying that need.

The institution never loses sight of the fact, however, that nearly every woman is destined to become to a greater or less extent a home-maker, and that, after all, is her most important calling. Hence from the beginning, one of the prime aims of the College has been to fit the young women of Georgia for proper home-making by giving them a careful and thorough course of instruction in such branches as cooking, household economics, home sanitation, sewing, dressmaking, etc. It has been exceedingly gratifying to observe that these studies, which make for domestic utility, have become each succeeding year more and more popular with the pupils and there has perhaps been more growth and progress in that direction than in any other branch of the school.

The College has become thoroughly installed in the confidence and the affections of the people of Georgia. The wisdom of this progressive and aggressive step in the education of woman has been demonstrated beyond a doubt, and the beneficent practical results are showing themselves in many ways throughout the State.

FRESHMAN CLASS.

Mathematics. (Five times a week.)

I. Algebra, Hawkes, Lucy and Touton's.

II. Geometry, Wentworth and Smith's Plane Geometry.

English. (Five times a week.)

I. Literature: American Short Stories, Edited by E. E. Hale; Ivanhoe; Julius Caesar; Selections from American Poets; Required Home Reading—One book read and reported on each month.

II. History of American Literature; Text-book, Tappan's American Literature.

III. Composition and Rhetoric; Text-book, Herrick and Damon's; Themes.

Review English. (Twice a week.)

Composition and Grammar.

History. (Three times a week.)

Westermann's Ancient History.

Latin. (Five times a week.)

I. Caesar, Books I-IV.

II. Prose Composition; Roman History; Grammar.

(In the work of the Freshman class a student may omit either Latin or Science; one of these subjects, however, is required of every student.)

Science. (Five times a week.)

I. Agriculture, Burkett, Hill and Stevens.

II. Botany, Bailey's.

Physical Training. (Required of all students twice a week.)

Free-Hand Drawing. (Required of all students twice a week.)

Chorus Singing. (Required of all students at Chapel Exercises.)

Sight Singing. (Required of all students once a week.)

Sewing. (Required of all students twice a week.)

Extra Subjects. (Elective.)

Music, Cooking, Dressmaking, Millinery, Stenography, Typewriting, Bookkeeping, Manual Training, Review Arithmetic. These subjects are not considered a part of the regular Freshman course of study; however, when a Freshman student has sufficient time and ability she may be allowed to take one of these subjects as an extra study. Also, special students who are not working towards a diploma and who do not take all the Freshman work may be allowed to take some of these studies as specials or extras. There is no tuition charge for any of these extra studies except music. No student will be allowed to undertake extra studies beyond the regular prescribed course of study unless the proper authorities are convinced that the student has the time, the ability and the health necessary for the successful performance of the extra work.

SOPHOMORE CLASS.

English.

I. Literature: Idylls of the King; English Essays (Bronson's Text); Merchant of Venice; The Cloister and the Hearth; Required Home Reading—One book read and reported on each month.

II. Composition and Rhetoric; Text-book, Herrick and Damon; Themes.

History. (Half year course, either Fall or Spring term.)

History of Western Europe, Robinson.

Manual Training. (Half year course, either Fall or Spring term.)
Basketry; Stenciling; Clay Modeling; Block-Printing; Leather Tooling.

Physics. (Half year course, Fall term.)
Higgins. Laboratory Experiments.

Chemistry. (Half year course, Spring term.)
Brownlee. Recitations three periods a week.
Laboratory experiments two periods a week.

Floriculture. (Half year course, either Fall or Spring term.)
Rexford's Home Floriculture. Practical Laboratory Work.
A Work. A course of two lectures and two laboratory periods a week for one term. The work takes up the preparation of the soil, many forms of plant propagation as cuttings, layerage, seeds, spores, budding and grafting; and a study of such plants as the rose, palms, ferns, bulbs, etc.

Latin. Cicero's Orations, Four Against Catiline and the Pro Archia; Ovid; Prose Composition; Grammar.

Mathematics. Geometry. Wentworth and Smith's Plane and Solid Geometry.

Physical Training. (Four times a week.)

Chorus Singing. (Five times a week at Chapel Exercises.)

Sight Singing. (Once a week.)

In the Sophomore Class a student must take English (1 unit), Physics (½ unit), Chemistry (½ unit), History (½ unit), Manual Training (½ unit), Physical Training, Chorus Singing, Sight Singing, and must choose one unit from the following: Latin (1 unit), Mathematics (1 unit), Floriculture (½ unit), Extra Subjects (½ unit).

Extra Subjects. (Elective.)

Music, Cooking, Dressmaking, Millinery, Stenography, Typewriting, Bookkeeping, Free-Hand Drawing, Special Normal Work (short course for teachers). These subjects are not considered a part of the regular Sophomore course of study; however, when a Sophomore student has sufficient time and ability she may be allowed to take one of these subjects as an extra study. Also, special students who are not working towards a diploma and who do not take all the Sophomore work may be allowed to take some of these studies as specials or extras. There is no tuition charge for any of these extra studies except music. No student will be allowed to undertake extra studies beyond the regular prescribed course of study unless the proper authorities are convinced that the student has the time, the ability and the health necessary for the successful performance of the extra work.

JUNIOR CLASS.

English.

I. Literature. Elementary studies in epic poetry, developed through the study of a folk epic. The Drama; Macbeth, Hamlet.
II. History of English Literature (Long.)
III. Technique of the Drama.

Domestic Science. (Required of all Juniors.)

I. Theory of Foods:
  1. The Nutritive and Economic Value of Foods.

2. The Composition and Digestibility of Foods.
3. Dietetics; (Text: Human Foods, by Snyder; Library Readings.)

II. Household Management:

1. Problems in Simple Home Planning and Furnishing—Heating, Lighting, Ventilation, Water Supply, Plumbing.
2. Division of Time and Labor in the Home.
3. Household Expenditures and Accounts.

III. Laboratory Work: (Three to four hours a week.)

1. Experimental Work in Foods.
2. Practical Course in Cooking of Foods.
3. Planning and Serving of Meals.

Pedagogy.

I. Psychology, Halleck.
II. History of Education, Seeley.
III. Method in Education.
IV. Child Study.
V. Library Readings.

Biology. (Half year). Bailey and Coleman; Lectures and Laboratory work.

Chemistry. (Half year). Remsen's Briefer Course; Recitations three times a week and Laboratory work three periods a week.

Mathematics. Trigonometry, Wentworth's.

Latin. Virgil's Aeneid, Books I, II, III, IV; Livy, Book XXI, XXII; Versification; Prose Composition; Mythology; Grammar.

Mechanical Drawing. (Twice a week.) Working Drawings; House Plans.

Physical Training. (Twice a week.)

Chorus Singing. (Five times a week at Chapel Exercises.)

Sight Singing. (Once a week.)

Extra Studies. (Elective, as in the Sophomore and Freshman Classes.)

(In the Junior year, students may choose one of three courses: Collegiate, Normal or Industrial (Domestic Science and Domestic Art, or Business). All Juniors are required to take English, Domestic Science, Normal Work (Psychology, and History of Education), Drawing, Physical Training, Singing, and to choose other studies after consultation and approval of the various departments.)

SENIOR CLASS.

English.

I. The Pedagogy of Literature and Composition.
Text: Chubb's Teaching of English; Study of selections for use in Primary, Grammar and High Schools.

II. Literature: The Novel—Silas Marner, Selections from English Poetry (Ward, Vol. IV.) Emerson's Essays. Required Reading and Themes.

Manual Training. Wood Work—Furniture Making.

Latin. Horace, Odes and Epodes; Cicero, de Senectute; Versification; Prose Composition; Roman Literature.

Mathematics. Analytical Geometry; Review Arithmetic.

Science.

- I. Organic and Food Chemistry; Text, Moore.
- II. Chemistry of Food and Nutrition, Sherman; Laboratory Manual of Food and Nutrition, Brevier and Usher.

Physical Training.

Chorus Singing.

Sight Singing.

Normal Work.

- A. Lectures and Recitations.
  - I. Method of Education, Roark.
  - II. School Management, Dutton.
  - III. Philosophy of Education, Horne; Library Readings.
  - IV. Current Pedagogical Literature, Library Readings.
  - V. Review in Arithmetic.
  - VI. Review in Drawing—Perspective; Water Color; Hand Work.
  - VII. Review in Geography.
  - VIII. Review in American History.
  - IX. Review in Physiology.
  - X. Pedagogy of Literature and Composition (See English Department.)
  - XI. Agriculture, Botany, Nature Study (See Science Department.)
- B. Practice Teaching throughout the year in Training School.

Home Economics.

- A. Domestic Science.
  - I. Advanced Course in Theory of Foods.
    - 1. Review and continuation of Junior year.
    - 2. Study of production and composition of raw food material, as: cereals, meats, dairy products, fruits, vegetables, beverages, spices, and condiments.
    - 3. Methods of Food Preservation.
    - 4. Food Adulteration.
    - 5. Marketing.
    - 6. Dietetics.
  - I. Advanced Course in Cookery.
    - 1. Experimental Work.
    - 2. Selection, Preparation, Care and Manipulation of Food Materials.
    - 3. Invalid Cookery.
    - 4. Planning and Serving of Meals.

- III. House Sanitation: Structure and Situation of House; Drainage; Water Supply; Ventilation; Heating; Lighting; Plumbing; Cleaning; Laundry Work.
- IV. Household Bacteriology.
  - 1. Nature and Distribution of Molds, Yeasts, and Bacteria.
  - 2. Relation of Micro-organisms to,
    - (a) Preparation of Food.
    - (b) Preservation of Food.
    - (c) Health of Homes.
    - (d) Bacteria in Ice, Water and Milk.
- V. Methods of Teaching Domestic Science.
  - 1. Planning of Course of Study.
  - 2. Class Management.
  - 3. Laboratory Equipment.
  - 4. Observation and Practice Teaching.
  - 5. Lecture Demonstrations.
- VI. Chemistry of Food Nutrition (See Science Department).

B. Domestic Art.

- I. Theory and Practice.
  - 1. Hand Sewing: Fundamental stitches, seams, fells, and hems applied to simple problems suitable for grade sewing.
  - 2. Machine Sewing: The use and care of machies used in garment making and simple dressmaking.
  - 3. Pattern Making: Simple straight rule drafting and adaptation of commercial patterns.
  - 4. Economic and artistic value of proper selection of clothing and home furnishings.
  - 5. Repair and Care of Clothing: Patching, darning, and general care of garments and household furnishings.
  - 6. Embroidery: Ornamentation of household linens and furnishings, and garments.
  - 7. Weaving, Knitting and Crocheting.
  - 8. Design and Color: In relation to dress and the home furnishings.
  - 9. Textiles: History of development of textile industries. The four leading textiles studied in relation to their use in the home and dress.
- II. Discussions and Methods of Teaching Domestic Art.
  - 1. The aim of and the relation it bears to education in Elementary schools; Secondary schools.
  - 2. Planning of Courses of Study.
  - 3. Class Management.
  - 4. Laboratory Equipment.
- III. Observation and Practice Teaching.

Agricultural Sciences.

I. Agriculture and Nature Study. (Two periods a week for a year.)
  1. Study of the soil.
  2. Soil drainage and irrigation.
  3. Plant foods: their value and application.
  4. Plant enemies—insects and diseases.
  6. Care of trees.
  7. A few of the principal farm crops—cotton, corn, etc.
  8. Farm conveniences—Roads, water, supply, lighting.
  9. Study of the common birds.
  10. Study of the common trees.
  11. Study of the common weeds.
  12. Consideration of material from teacher's standpoint.

II. Poultry Culture:

Half year course dealing in a practical way with raising poultry. Every student taking this course will, if possible, have actual charge of an incubator, brooder and a yard for a short time.

III. School Gardening:
  1. Preparation
    (a) Making of cold frames.
    (b) Study of uses and value of cold frames.
    (c) Making of school garden.
  2. Cultivation of plants in cold frames in winter months.
  3. Cultivation of plants in garden in spring.
  4. Observation of Training School gardens.
  5. Study of applications and values of gardening for school work.

GRADUATING CLASS, 1913.

COLLEGIATE GRADUATES.

Miss Ida Lou Barron	Clinton, Ga.
Miss Evyln Bullard	Monticello, Ga.
Miss Margaret Colson	Waynesboro, Ga.
Miss May Holmes	Augusta, Ga.
Miss Marie Lynch	Machen, Ga.
Miss Winnie Perry	Covington, Ga.
Miss Ranna M. Ramsey	Pidcock, Ga.
Miss Georgia Ward	Villanow, Ga.

COLLEGIATE-INDUSTRIAL GRADUATES.

(Domestic Science and Arts.)

Miss Zelma Babb	Powder Springs, Ga.
Miss Myrtle Bailey	Washington, Ga.

Miss Annie Bacon	Stephens, Ga.
Miss Mamie Boykin	Sylvania, Ga.
Miss Frances Burney	Rome, Ga.
Miss Eula DuPree	Dublin, Ga.
Miss Ladye Greene	Milledgeville, Ga.
Miss Maude Greene	Washington, Ga.
Miss Verna Harvard	Dublin, Ga.
Miss Sadie Humphrey	Milledgeville, Ga.
Miss Lallie Virginia Johns	Bishop, Ga.
Miss Margaret Joseph	Milledgeville, Ga.
Miss Miriam Kirkland	Nicholls, Ga.
Miss Carrie Klump	Columbus, Ga.
Miss Caro Lane	Milledgeville, Ga.
Miss Nell Mallory	Athens, Ga.
Miss Pearl McDonald	Pelham, Ga.
Miss Nellie Musselwhite	Reynolds, Ga.
Miss Julia McWhorter	Watkinsville, Ga.
Miss Annie Newton	Machen, Ga.
Miss Lurline Nix	Commerce, Ga.
Miss Sara Pye	Thomaston, Ga.
Miss Emma Robson	Sandersville, Ga.
Miss Mary Russell	Winder, Ga.
Miss Emma Smith	Bartow, Ga.
Miss Marie Stembridge	Milledgeville, Ga.
Miss Gussie Tabb	Stellaville, Ga.
Miss Annie Mary Thigpen	Sandersville, Ga.
Miss Lollie Tripp	Acworth, Ga.
Miss Julia Troutman	Milledgeville, Ga.
Miss Maggie Videtto	Augusta, Ga.
Miss Jennette Wells	Mountville, Ga.
Miss Clyde Womack	Blakely, Ga.
Miss Lurline Wood	Harrison, Ga.

COLLEGIATE-NORMAL GRADUATES.

Miss Alberta Alexander	Atlanta, Ga.
Miss Cleo Arthur	Commerce, Ga.
Miss Nina Bailey	Satilla Bluff, Ga.
Miss Irene Baird	Grovania, Ga.
Miss Pearl Barksdale	Atlanta, Ga.
Miss Bessie Barnes	Bullochville, Ga.
Miss Genie Claire Barnes	Milledgeville, Ga.
Miss Beulah Batchelor	Eatonton, Ga.
Miss Kathleen Bayne	Milledgeville, Ga.
Miss Ina Billings	Damascus, Ga.
Miss Gladys Irene Bird	Statesboro, Ga.
Miss Katie Briscoe	Covington, Ga.
Miss Louise Bryant	Lexington, Ga.

Miss Blanche Camp	Dallas, Ga.
Miss Mattie Cheves	Montezuma, Ga.
Miss Marie Cole	Senoia, Ga.
Miss Christine Coleman	Devereaux, Ga.
Miss Elah Cowart	Summitt, Ga.
Miss Ruth Croker	Dallas, Ga.
Miss Mae Culpepper	Fayettesville, Ga.
Miss Inez Dominy	Fitzgerald, Ga.
Miss Mamie Lee Eubanks	Fort Valley, Ga.
Miss Lottie Fletcher	Statesboro, Ga.
Miss Annie Laurie Garner	Buford, Ga.
Miss Sallie Mae Gibson	Agricola, Ga.
Miss Carrie Glausier	Baconton, Ga.
Miss Bessie Bruce Harris	Albany, Ga.
Miss Addie Helms	Dallas, Ga.
Miss Mae Henderson	Mayesville, Ga.
Miss Eula Hitchcock	Dallas, Ga.
Miss Mary Hunter	Greenville, Ga.
Miss Fannie Lou Jackson	Stephens, Ga.
Miss Ruby Claire Johnson	Hazlehurst, Ga.
Miss Blanche Johnson	Lumpkin, Ga.
Miss Zelma Jones	Senoia, Ga.
Miss Jewell Jordan	Dawson, Ga.
Miss Margaret Keith	Oakland, Ga.
Miss Florence Langford	Conyers, Ga.
Miss Katie Lanier	Savannah, Ga.
Miss Ruby Lasseter	Luthersville, Ga.
Miss Myrtle Linch	Willard, Ga.
Miss Lucile Lokey	Hatchers, Ga.
Miss Nellie E. Lowman	Montezuma, Ga.
Miss Ethel Lucas	Reynolds, Ga.
Miss Emmie Luetje	Columbus, Ga.
Miss Berta McCurdy	Comer, Ga.
Miss Eva McElhannon	Jefferson, Ga.
Miss Mary Stewart McMichael	Buena Vista, Ga.
Miss Ruth Mansfield	Pelham, Ga.
Miss Clara Marshall	Lumpkin, Ga.
Miss Freddie Massey	Commerce, Ga.
Miss Ida Fay Mathews	Cordele, Ga.
Miss Genie Small Mitchell	Acworth, Ga.
Miss Elizabeth Moore	Milan, Tenn.
Miss Mary Moses	Newnan, Ga.
Miss Pansy Newton	Lela, Ga.
Miss Opie Overton	Union Point, Ga.
Miss Kate Marie Parker	Fairburn, Ga.
Miss Lurline Parker	Fairburn, Ga.
Miss Edna K. Pounds	Stone Mountain Ga.

Miss Lois Powledge	Luthersville, Ga.
Miss Gussie Presswood	Milledgeville, Ga.
Miss Edith Proctor	Satilla Bluff, Ga.
Miss Annie Ramsey	Phinizy, Ga.
Miss Sadie Reese	Blythe, Ga.
Miss Gussie Register	Helena, Ga.
Miss Nanette Rozar	Carrollton, Ga.
Miss Mary Sams	Greenville, Ga.
Miss Katherine Scott	Milledgevile, Ga.
Miss Mamie Scott	Waynesboro, Ga.
Miss Bertie Tanner	Lawrenceville, Ga.
Miss Gladys Tappan	White Plains, Ga.
Miss Ruth Alice Taylor	Thomasville, Ga.
Miss Lillie Trammel	Morrow, Ga.
Miss Inez Trapp	Reynolds, Ga.
Miss Anna Wagnon	Milledgeville, Ga.
Miss Carrie Ward	Lumpkin, Ga.
Miss Jennie Ward	Washington, Ga.
Miss Mabel Williams	Locust Grove, Ga.
Miss Sallie Wilson	Butler, Ga.
Miss Nell Wise	Lovejoy, Ga.

STUDENTS AWARDED CERTIFICATES.

Stenography and Typewriting.

Miss Louise Culpepper	Fayette County.

Stenography, Typewriting and Bookkeeping.

Miss Camille Berry	Hancock County.
Miss Kathleen Johns	Tift County.

Bookkeeping.

Miss Lucile Benford	Baldwin County.
Miss Neville Conder	Campbell County.
Miss Louise Freeman	Meriwether County.
Miss Sadie Heiser	Wilcox County.
Miss Nellie Lawman	Macon County.

Technical Dressmaking.

Miss Irene Adams	Thomas County.
Miss Jessie Allen	Baldwin County.
Miss Nelle Campbell	Campbell County.
Mrs. Mattie Sibley Case	Baldwin County.
Miss Margaret Davison	Troup County.
Miss May DeSaussure	Baldwin County.
Miss Marguerite Fowler	Haralson County.
Miss Ina Hardison	Houston County.
Miss Rebecca Little	Baldwin County.
Miss Clara Richard	Baldwin County.

Miss Myrtle Vining----------Houston County.
Miss Effie Whitaker----------Columbia County.
Miss Myrtis Young----------Richmond County.

General Dressmaking.

Miss Florence Barnett----------North Carolina.
Miss Sara Robertson----------Fulton County.
Miss Opal Shepherd----------Berrien County.
Miss Lola Swann----------Gilmer County.
Miss Ethel Wood----------Bibb County.

Special Millinery.

Miss Nellie Bacon----------Sumter County.
Miss Anna Belle Kenney----------Bibb County.

Normal Domestic Science.

Miss Floride Allen----------Baldwin County.

Domestic Arts.

Miss Emeline Lula Cleveland----------Monroe County.
Miss Ruth Erma Ridenhour----------Bibb County.

Special Normal.

Miss Nell Bacon----------Sumter County.
Miss Elizabeth Ruth Bagby----------Pulaski County.
Miss Marian Bell----------Grady County.
Miss Fannie Nell Brewer----------Chatham County.
Miss Martha Elizabeth Brown----------Washington County.
Miss Inez Carter----------Bryan County.
Miss Phoebe Ruth Cummings----------Emanuel County.
Miss Izetta Davis----------Wilkinson County.
Miss Lucile Candler Dimon----------Baldwin County.
Miss Willievie Dowdy----------Jackson County.
Miss Ruby Harris----------Jackson County.
Miss Elizabeth Harwell----------Baldwin County.
Miss Viola Holloway----------Thomas County.
Miss Lucile Kennedy----------Bulloch County.
Miss Corrine Matthews----------Jefferson County.
Miss Louise Moore----------Bibb County.
Miss Willie Lee Perkins----------Washington County.
Miss Tinie Presson----------Henry County.
Miss Austria Smith----------Greene County.
Miss Annie Mae Smith----------Jackson County.
Miss Minnie Viola Sutton----------Emanuel County.
Miss Mamie Estelle Tanner----------Gwinnett County.
Miss Sue Jelks Ware----------Bibb County.
Miss Edna Grace Whitehead----------Newton County.

Pianoforte.

Miss Viola Carswell----------Richmond County.

ROLL OF STUDENTS.

Georgia Normal and Industrial College, 1912-1913.

Adams, Irene	Thomas
Adams, Marie	Thomas
Adkins, Lois	Houston
Alexander, Alberta	Fulton
Alexander, Charlotte	Berrien
Allen, Benita	Baldwin
Allen, Bessie	Chattooga
Allen, Ellene	Gwinnett
Allen, Floride	Baldwin
Allen, Inez	Decatur
Allen, Jessie	Baldwin
Almand, Ruth	Rockdale
Amoss, Mary	Baldwin
Anderson, Irene	Terrell
Andrews, Florence	Baldwin
Andrews, Mary Blount	Jones
Armstrong, Clare	Bibb
Arnold, Esther	Troup
Arther, Clio	Jackson
Austin, Nadine	Brooks
Babb, Esther	Cobb
Babb, Zelma	Cobb
Bacon, Annie	Oglethorpe
Bacon, Leila	Sumter
Bacon, Nell	Sumter
Bagby, Ruth	Pulaski
Bailey, Myrtle	Wilkes
Bailey, Nina	Camden
Baird, Ione	Houston
Baker, Fannie Ida	Franklin
Banks, C. B. Kate	Baldwin
Banks, Lorinne	Baldwin
Barksdale, Minnie	Murray
Barksdale, Pearl	Fulton
Barnes, Bessie	Meriwether
Barnes, Genie Claire	Baldwin
Barr, Marcia	Bulloch
Barron, Ida R.	Jones
Batchelor, Beulah	Putnam
Bates, Mary Lowe	Cherokee
Bayne, Dollie	Baldwin
Bayne, Kathleen	Baldwin
Beasley, Minnie Reid	Bulloch
Bedell, Janie	Charlton
Bedell, Lizzie	Charlton
Belcher, Sallie	Grady
Bell, Ellene	Jenkins
Bell, Iva	Jenkins
Bell, Marion	Grady
Bell, Olive	Baldwin
Beman, Lucy D.	Hancock
Benford, Lucile	Baldwin
Bennett, Exa	Oglethorpe
Berry, Camille	Hancock
Berry, Marjorie	Pike
Bethel, Mary	Upson
Billings, Ina	Early
Bird, Gladys	Bulloch
Black, Fannie	Gordon
Blalock, Winnier	Fayette
Blanks, Eunice	Bibb
Bledsoe, Emmie F.	Quitman
Bolton, Euri Belle	Webster
Bond, Lillian	Franklin
Bond, Mary	DeKalb
Booker, Ellie	Harris
Bowden, Irene	Gwinnett
Bowen, Ione	Mitchell
Boyer, Katherine	Hancock
Boykin, Lucile	Screven
Boykin, Mamie	Screven
Bradford, Annette	Mitchell
Bradford, Mary	Polk
Brannen, Florence	Baldwin
Brannen, Rena	Bulloch
Brewer, Elizabeth	Macon
Brewer, Fannie Nelle	Lowndes
Bridwell, Cornelia	DeKalb
Briscoe, Katie	Newton
Brooks, Lora	DeKalb
Brooks, Sallie	Jones
Brown, Elizabeth	Washington
Brown, Guy	Miller
Brown, Pearl	Franklin
Bryan, Annie Ola	Washington
Bryant, Louise	Oglethorpe
Bullard, Evlyn	Jasper
Bulloch, Mabel	Meriwether

Burch, Annie Maud - - Dodge
Burney, Frances - - - Floyd
Burt, Agnes - - - - Oglethorpe
Burt, Claud - - - - Oglethorpe
Burrough, Clara - - - Jackson
Bussey, Frances - - - - Turner
Bussey, Harriet - Chattahoochee
Butler, Chessie - - - - Lincoln
Butler, Essie - - - - - - Monroe
Byrd, Alice Evelyn - - - Floyd
Caldwell, Claude - - - - Greene
Camp, Blanche - - - - Paulding
Campbell, Nell - - - - Campbell
Carithers, Willie - - - Madison
Carmichael, Macie - - - Coweta
Carrington, Alice - - - Baldwin
Carswell, Viola - - - Richmond
Carter, Inez - - - - - - - Bryan
Case, Mrs. M. S. - - - Baldwin
Cason, Eloise - - Washington
Catleberry, Winnie - - Lumpkin
Chapman, Minnie - - - Twiggs
Chappell, Cornelia - - Muscogee
Chappell, Loretta - - Muscogee
Cheney, Dorothy - - - - Schley
Cheves, Mattie - - - - Macon
Childes, Atholine - - - Taylor
Childs, Aurelia - - - - Taylor
Childs, Maud - - - - - - Jones
Clark, Hattie - - - - Richmond
Clayton, Bessie - - - - - Echols
Cleveland, Emeline - Crawford
Clouts, Elvin - - - - - - Cobb
Coile, Erin - - - - - - Clarke
Colclough, Jewell - Oglethorpe
Cole, Lillian - - - - - Elbert
Cole, Marie - - - - - - Coweta
Coleman, Christine - - Hancock
Coleman, Ina - - - - Hancock
Colson, Margaret - - - Burke
Condor, Nevelle - - - Campbell
Cone, Blanche - - - - Brooks
Cone, Clara Lee - - - - Baldwin
Conn, Henrietta - - - Baldwin
Conner, Floride - - - - Pulaski
Cook, Annie - - - - - - Jasper
Cook, Emily - - - - - Baldwin

Cooper, Alta - - - - - - Polk
Copeland, Claudia - - - Thomas
Copeland, Mary - - - - Thomas
Copeland, Nannie - - Whitfield
Cowart, Elah - - - - Emanuel
Cowart, Zaddie - - - - Emanuel
Cowden, Lallah - - - - - Polk
Croker, Ruth - - - - Paulding
Crovatt, Love - - - - - Thomas
Culpepper, Kate - - - Fayette
Culpepper, Louise - - - Fayette
Culpepper, Mae - - - - Fayette
Cumming, Ruth - - - Emanuel
Daniel, Inez - - - - - - Marion
Daughtry, Sara - - - - - Bibb
Davenport, Ruth - - - - - Cobb
Davidson, Margaret - - Troup
Davis, Almeda - - - - - Thomas
Davis, Emma - - - - - Thomas
Davis, Hassie - - - - - Bulloch
Davis, Izetta - - - - Wilkinson
Davis, Mary - - - - - Baldwin
Davis, Melrose - - - - Bulloch
Dekle, Pearl - - - - - Bulloch
Denman, Edna - - - - Haralson
DeSaussure, May - - - Baldwin
Dickey, Lucy Lynn - - - White
Dimon, Lucile - - - - Baldwin
Dorminy, Inez - - - - Ben Hill
Dorster, Lottie - - - - Sumter
Dowdy, Willie Vie - - Jackson
Duggan, Nancy - - - Wilkinson
Duke, Cloa - - - - - Newton
Duke, Ruby - - - - - - Newton
Dunnevent, Glennie - - Morgan
Dunwody, Cornelia - - DeKalb
DuPree, Eula - - - - - Laurens
Durden, Adeline - - - Baldwin
Durden, Martha - - - - Toombs
Durham, Lillian - - - - - Clay
Eakes, Louise - - - - Morgan
Edwards, Lois R. - - Whitfield
Edwards, Mattie - - - Newton
Edwards, Wilma - - - - Bryan
Ellard, Birdie - - - - Greene
Ellington, Inez - - - - Newton
Eubanks, Mamie Lee - Houston

Evans, Essie - - - - - Madison
Evans, Ethel - - - - - Thomas
Evans, Mattie S. - - - Clayton
Everett, Florine - - - - - Polk
Fields, Mary G. - - - - - Henry
Fields, Nelle - - - - - - Macon
Fields, Ruth - - - - Dougherty
Flemming, Lucile - - - Marion
Flemister, Rossie L. - - Newton
Fletcher, Davie - - - - - Butts
Fletcher, Lottie - - - - Bulloch
Florence, Katherine - - - Cobb
Florence, Louise - - - - Lincoln
Fossett, Etta - - - - - Gordon
Fowler, Marguerite - - Haralson
Freeman, Louise - - Meriwether
Fuqua, Oppie Lee - Montgomery
Gaines, Ina - - - - - - - Hart
Garner, Annie L. - - - Gwinnett
Gay, Annie Laurie - - Randolph
George, Eakes - - - - - Clayton
Gholston, Eunice - - - Madison
Gibson, Sallie M. - - - Glascock
Glausier, Carrie - - - - Mitchell
Godfrey, Annie M. - Washington
Gordy, Thelma - Chattahoochee
Gower, Willie M. - - - Walton
Graham, Cornelia - - - Fulton
Granade, Marie - - - - Baldwin
Graves, Marian - - - - Hancock
Gray, Inez - - - - - - Catoosa
Green, Mrs. E. M. - - - Baldwin
Green, Frances - - - - Morgan
Green, Ladye - - - - - Baldwin
Green, Louise - - - - - Baldwin
Green, Maude - - - - - Wilkes
Gudger, Frances - - - - Murray
Guinn, Margaret - - - Rockdale
Gunther, Frieda - - - - - Hall
Hall, Frances - - - - - Baldwin
Hall, Sara - - - - - - Baldwin
Hall, Willie M. - - - Wilkinson
Hamilton, Lilly M. - - - Clinch
Hardison, Fannie R. - Crawford
Hardison, Ina - - - - Crawford
Hardwick, Mary - - Washington
Harrington, May - - - Brooks
Harris, Bessie B. - - Dougherty
Harris, Elizabeth - - - Morgan
Harris, Pauline - - - - Jackson
Harris, Ruby - - - - - Jackson
Harrison, Carrie - - - - Grady
Harrison, Lois - - - - - Early
Harrison, Nelle - - - - - Pike
Hart, Beulah - - - - - Toombs
Hartley, Lucile - - - Crawford
Harvard, Verna - - - - Laurens
Harvey, Josie - - - - - Jasper
Harvey, Mary Lizzie - - - Upson
Harwell, Elizabeth - - - Putnam
Hawkins, Jessie - - - - Putnam
Heath, Margaret - - - - Taylor
Heiser, Sadie - - - - - Wilcox
Helms, Addie - - - - - Paulding
Henderson, May - - - - Banks
Hill, Sara Frances - Meriwether
Hill, Sue - - - - - - - Harris
Hilsman, Camile - - - - - Bibb
Hinson, Addie M. - - Jeff Davis
Hinson, Belle - - - - - Telfair
Hitchcock, Eula - - - Paulding
Hitchcock, Madel - - Muscogee
Holcomb, Hattie - - - Newton
Holder, Margarite - - - Jackson
Holliman, Geraldine, Wash'gton
Holloway, Julia - - - - Twiggs
Hollosay, Susie - - - - - Pike
Hollosay, Viola - - - - Brooks
Holmes, Mae - - - - Richmond
Hooter, Gladys - - - - - Fulton
Hope, Eileen - - - - Dougherty
Hope, Hazel - - - - - - Clayton
Hope, Willie - - - - Dougherty
Hornady, Minnie D. - - Marion
Horne, Winona - - - - - - Tift
Houston, Irene - - - - - - Bibb
Howard, Mabel - Chattahoochee
Howell, Bertha - - - - Sumter
Howel, Beryl - - - - - Greene
Hudson, Winifred - - - Gilmer
Huff, Ellen - - - - - - - - Bibb
Huggins, Bessie - - - - Ware
Hull, Sue Lou - - - - - Bartow
Humber, Ceres - - - - - Putnam

Humphrey, Sadie - - - Baldwin
Hunt, Mary - - - - Meriwether
Hunt, Sara - - - - - - - Harris
Hunter, Roberta - - - - Jenkins
Hutchinson, Lora - - - Johnson
Ivey, Leonora - - - - - Thomas
Jackson, Fannie L. - Oglethorpe
Jamerson, Marion - Washington
Jarrell, Lottie - - - - - Fulton
Jenkins, Maggie - - - - Dooly
Jenkins, Bessie - - - - Dooly
Jennings, Helen - - - - Wayne
Johns, Kathleen - - - - - Tift
Johns, Lallie V. - - - - Oconee
Johnson, Hallie - - - Jeff Davis
Johnson, Ruby - - - Jeff Davis
Johnston, Blanche - - - Stewart
Joiner, Carmen - - - -Calhoun
Joiner, Louise - - - - - Ware
Joiner, Mirtie - - - Washington
Jones, Georgia - - - - Thomas
Jones, Ruth - - - - - Columbia
Jones, Zelma - - - - - Coweta
Jordan, Jewell - - - - - Calhoun
Joseph, Ellen - - - - - Baldwin
Joseph, Margaret - - Baldwin
Joseph, Rosalind - - - Baldwin
Kaigler, Kathleen - - Quitman
Keith, Margaret - - Meriwether
Kendrick, Gladys - - - - - Bibb
Kennedy, Lucile - - - - Bulloch
Kenney, Anna Belle - - - Bibb
Kessner, Maud - - - - - Fulton
Killingsworth, Edna - - - Clay
Kilpatrick, Harriet - - Hancock
King, Erma Gladys - - - Jones
King, Miller - - - - - - Union
King, Olive - - - - - Jeff Davis
Kinnett, Isabelle - - - - Bibb
Kirkland, Miriam - - - - Coffee
Klump, Carrie - - - - Muscogee
Krauss, Miriam - - - - - Glynn
Laird, Ella M. - - - - Paulding
Lane, Caro - - - - - - - Baldwin
Langford, Florence - - - Wilcox
Lanier, Katie - - - - - Chatham
Lanier, Pearl - - - - - Bulloch

Lasseter, Ruby - - - Meriwether
Latham, Mamie - - - - Milton
Latham, Susie - - - - - Milton
Lawrence, Alta - - - - Paulding
Lee, Annie F. - - - - - Newton
Lee, Marion - - - Montgomery
Lee, Sara M. - - - - - - Clayton
Lenhardt, Grace - - - Franklin
Lewis, Bessie - - - - - - - Troup
Linch, Bernice - - - - - - Bibb
Linch, Myrtle - - - - - Putnam
Little, Annie M. - - - - Jackson
Little, Merle - - - - - - Franklin
Livingston, Ada - - - - Newton
Lokey, Lucile - - - - - - Clay
Lokey, Madge - - - - - - - Clay
Long, Belle - - - - - - - Warren
Lott, Allie - - - - - - - - Coffee
Lowe, Etta - - - - - - - Marion
Lowe, Frances - - - - - - Jones
Lowman, Nellie - - - - Macon
Love, Lois - - - - - - - - Greene
Lucas, Ethel - - - - - - - Taylor
Lucas, Gladys - - - - - - Taylor
Luetje, Emmie - - - - Muscogee
Lumsden, Laura - - - - Talbot
Lynch, Marie - - - - - - Putnam
McArthur, Hallie - - - - Telfair
McCallum, Nannie - - - Twiggs
McClure, Rochelle - - Cherokee
McCurdy, Berta - - - Madison
McCurdy, Janie - - - - Madison
McDaniel, Lucile - - - - Talbot
McDonald, Pearl - - - Mitchell
McElhannon, Eva - - - Jackson
McKenzie, Nena - - - - Macon
McKissock, Winnie - - - Clay
McMichael, Mary S. - - Marion
McMillan, Elizabeth - - - Cobb
McWhirter, Baxter - - Franklin
McWhirter, Madge - - Franklin
McWhorter, Julia - - - Oconee
Maffett, Viola - - - Meriwether
Mallory, Nell - - - - - - Clarke
Malone, Edna - - - - - - Carroll
Mansfield, Ruth - - - - Mitchell
Marshall, Clara - - - - Stewart

Marshall, Ruby	Meriwether
Martin, Willie M.	Wilkes
Massey, Freddie	Jackson
Mathews, Corinne	Jefferson
Mathews, Ida F.	Crisp
Mathews, Mattie Seals	Talbot
Mathews, Philoclea	Dougherty
Mayes, Bessie	Decatur
Miller, Clara	Terrell
Miller, Marion	Baldwin
Miller, Mary	Liberty
Miller, Maud	Franklin
Miller, Ruth	Macon
Milton, Maybelle	Carroll
Minter, Nettie	Spalding
Mitchell, Genie S.	Cobb
Mitchell, Grace	Decatur
Moore, Annie	Floyd
Moore, Elizabeth	Tennessee
Moore, Louise	Bibb
Moorhead, Emma G.	Morgan
Moran, Emmie	Baldwin
Morgan, Iva	Dooly
Morgan, Myrt	Dooly
Morton, Lillian	Ware
Moseley, Janie Lee	Madison
Moses, Mary	Coweta
Mullins, Ida Lee	Greene
Musselwhite, Nell	Taylor
Myrick, Allie	Baldwin
Neely, Merrill	Coweta
Nelms, Gladys	Franklin
Newton, Annie	Jasper
Newton, Pansy	DeKalb
Nicholson, Helen	Oglethorpe
Nix, Lurline	Jackson
Noble, Mary	Appling
Norris, Gladys	Pike
Odum, Gladys	Baker
Odum, Pearl	Burke
Oliver, Esther	Dooly
O'Neal, Janie	Harris
Orem, Sara	Pulaski
O'Shields, Clyde	Walton
Operton, Opie	Greene
Owenby, Norma	Union
Owens, Vesta	Franklin
Padgett, Ina	Tattnall
Padgett, Mamie	Tattnall
Palmer, Mittie C.	Mitchell
Park, Tommie	Greene
Parker, Alice	Thomas
Parker, Emma Kate	Liberty
Parker, Kate	Campbell
Parker, Lurline	Campbell
Parker, Ollie	Wilkes
Parker, Rena	Newton
Parks, Mattie	Clarke
Parks, Ruth	Baldwin
Partridge, Musa	Meriwether
Patterson, Annie L.	Spalding
Patillo, Will D.	DeKalb
Paul, Maud	Randolph
Payne, Liccie	Hall
Payne, Lillie	Hall
Peeples, Fannie	Monroe
Pennington, Alice	Monroe
Perkins, Willie	Washington
Perry, Amy	Pickens
Perry, Brownye	Newton
Perry, Clio	McDuffie
Perry, Winnie	Newton
Pike, Nellie	Brooks
Pinkston, Regina	Harris
Pittard, LeWare	Clarke
Plemmons, Roma	Gilmer
Poole, Mary	Franklin
Poole, Nelle	Franklin
Pope, Pauline	Carroll
Porter, Carrie M.	Floyd
Pounds, Edna	DeKalb
Powell, Louise	Jasper
Powledge, Lois	Meriwether
Presson, Tinie	Henry
Presswood, Gussie	Baldwin
Proctor, Dora	Emanuel
Proctor, Edith	Camden
Purdon, Lizabeth	Pierce
Purvis, Velma	Bryan
Pye, Sara	Upson
Pyland, Mrs. Lee	Carroll
Rainey, Annie	Putnam
Ramsey, Annie L.	Columbia
Ramsey, Ranna M.	Brooks

Ramsey, Rosaline - - - Brooks
Ratchford, Lizzie Mae Jefferson
Reese, Sadie C. - - - Richmond
Register, Gussie - - - - Irwin
Rhodes, Nada - - - - Taliaferro
Rice, Lois - - - - - - - Jackson
Richard, Caroline - - - Baldwin
Richardson, Clara - - Baldwin
Richardson, Esther - - Bulloch
Richardson, Marion - - Houston
Richardson, Sallie - - - Baldwin
Richardson, Mildred - - Bulloch
Ridenhour, Ruth - - - - - Bibb
Roberts, Marie - - - - - Jones
Roberts, Pauline - - - Emanuel
Roberts, Susie - - - - - Jones
Robertson, Rosa - - - - Walton
Robertson, Sara - - - - Morgan
Robison, Claire - - - - - Walton
Robson, Emma - - Washington
Rogers, Callie - Chattahoochee
Rogers, Leland - - - - - Walker
Rogers, Willie - - - - - Brooks
Rozar, Nannette - - - Carroll
Rushin, Mamie - - - - Thomas
Russell, Agnes - - - - - Pope
Russell, Louise E. - - - - Fulton
Russell, Marguerite - - Jackson
Russell, Mary - - - - Jackson
Russell, Susie - - - - - - Jones
Sams, Mary - - - - - - Fayette
Scott, Agnes - - - - - - Baldwin
Scott, Audrey - - - - - Charlton
Scott, Katherine - - - Baldwin
Scott, Mamie - - - - - - Burke
Searcy, Ruth - - - - - Baldwin
Searcy, Sara - - - - - Baldwin
Seay, Eloise - - - - - - Taylor
Sewell, Lillian - - - - - Troup
Shaw, Fannie - - - - - Berrien
Shelly, Cora Lee - - - - Brooks
Shepherd, Opal - - - - Berrien
Shirley, Lena - - - - - Milton
Shurley, Laurie - - - - Baldwin
Sibley, Mary - - - - - Baldwin
Sigman, Fannie Leola, Hancock
Simmons, Annie - - Effingham

Sims, Irene - - - - - Rockdale
Simpson, Mary - - - - Baldwin
Skinner, Hoyle - - - - Gwinnett
Slayton, Bessie - - - - - Harris
Smenner, Bessie - - - Muscogee
Smith, Annie Mae - - - Jackson
Smith, Annie M. - - - - Talbot
Smith, Austria - - - - - Greene
Smith, Emma E. - - - Jefferson
Smith, Evie Elizabeth - Pulaski
Smith, Jessie - - - - - - Macon
Smith, Lottie Hope - - Campbell
Smith, Marily - - - - Jefferson
Smith, Mary B. - - - - Hancock
Smith, Mary N. - - - Meriwether
Smith, Rossie - - - - - - Early
Smith, Tillie - - - - - - Macon
Souter, LeVerne - - - - Webster
Spence, Ruth - - - - - Mitchell
Stapleton, Ouida - - - - Bulloch
Starr, Blanche - - - - Franklin
Stembridge, Marie - - - Baldwin
Still, Ethel - - - - - - Rockdale
Stokes, Marie - - - - - Twiggs
Strange, Mary - - - - - Schley
Strickland, Juanite - - Bulloch
Stubbs, Daisy - - - - Chatham
Summerour, Nell - - - Gwinnett
Summerour, Ruth - - Gwinnett
Sutton, Winnie - - - Emanuel
Swan, Lola - - - - - - Gilmer
Tabb, Gussie - - - - Jefferson
Tait, Blanche - - - - - Glynn
Tanner, Bertie - - - Gwinnett
Tanner, Mamie - - - Gwinnett
Tappan, Gladys - - - - Greene
Taylor, Flovilla - - - - Laurens
Taylor, Janie - - - Meriwether
Taylor, Kathleen - - - Madison
Taylor, Ruth Alice - - Thomson
Thigpen, Annie M., Washington
Thigpen, Fannie B., Washington
Thigpen, Nina - - Washington
Thomas, Grace - - - Chattooga
Thompson, Blossom - - Oconee
Thompson, Janie - - Effingham
Thompson, Kemper - - Pulaski

Thompson, Lyra	Montgomery
Thompson, Vivian	Newton
Thornton, Rebecca	Haralson
Tigner, Katherine	Muscogee
Timmons, Margaret	Troup
Todd, Pearl	Troup
Tolson, Tecia	Mitchell
Trammell, Jennie	Coweta
Trammell, Lillie	Clayton
Trapp, Inez	Taylor
Travis, Marge	Fayette
Tripp, Lollie	Cobb
Troutman, Julia	Baldwin
Tuck, Ruth	Clarke
Tucker, Elzie	Rockdale
Turnell, Virginia	Baldwin
Turnell, Adrian	Morgan
Turner, Emma	Carroll
Videtto, Maggie	Richmond
Vining, Myrtle	Houston
Wagnon, Anna	Baldwin
Wakefield, Amy	Greene
Wall, Alma	Baldwin
Wall, Janie	Elbert
Walker, Elizabeth	Hancock
Walters, Florence	Sumter
Wansley, Ottye	Franklin
Ward, Alberta	Oconee
Ward, Carrie	Stewart
Ward, Georgia	Walker
Ward, Jennie	Wilkes
Ward, Ruth	Troup
Ware, Sue Jelks	Bibb
Warthen, Nan	Jefferson
Watson, Sarah	Chattooga
Weaver, Carruth	Putnam
Weaver, Clare	Putnam
Webster, T. Lou	Washington
Welch, Myrtis	Paulding
Wells, Bonnie	DeKalb
Wells, Jeannette	Troup
Wells, Lucy	Terrell
Whatley, Ruth	Meriwether
Whitaker, Effie	Columbia
White, Dorothy	Cherokee
White, Dove	Jones
Whitehead, Grace	Newton
Whitehurst, Florence	Twiggs
Wiggs, Ida Faith	Toombs
Wiley, Agnes Gold	Hancock
Wilkinson, Iris	Baldwin
Williams, Emily	Crisp
Williams, Inez	Carroll
Williams, Kathleen	Fulton
Williams, Lucy	Harris
Williams, Mabel	Henry
Williams, Marion	White
Williams, Ruby	Putnam
Willingham, Alva	Baldwin
Wilson, Elizabeth	Putnam
Wilson, Sallie	Taylor
Windham, Maude	Taylor
Wisdom, Emily	Harris
Wisdom, Kate	Harris
Wise, Nell	Clayton
Womack, Clyde	Early
Wood, Ethel	Bibb
Wood, Ivanora	Whitfield
Wood, Lurline	Washington
Woodard, Clyde	Berrien
Woodward, Lucile	Richmond
Wright, Nelle	Whitfield
Wright, Viola	Berrien
Yates, Annie	Bibb
Young, Myrtice	Richmond
Zellner, Grace	Monroe
Zelmenovitz, Sadie	Glynn

THE
STATE NORMAL
SCHOOL

ATHENS, GA.

STATE NORMAL SCHOOL.

BOARD OF TRUSTEES.

T. J. SHACKELFORD, Athens, Ga.	President.
S. B. BROWN, Albany, Ga.	Vice-President.
G. A. MELL, Athens, Ga.	Secretary and Treasurer.

Members ex-officio.

Governor Jos. M. Brown	Atlanta, Ga.
State Superintendent of Schools, M. L. Brittain	Atlanta, Ga.
Chancellor, University of Georgia, David C. Barrow	Athens, Ga.

Members-at-large.

Col. W. J. Morton	Athens, Ga.
J. R. Hogan	Agnes, Ga.

Members City of Athens.

T. J. Shackelford	Athens, Ga.
E. J. Bondurant	Athens, Ga.

Members Representing Trustees of University of Georgia

Augustus O. Bacon	Macon, Ga.
Hamilton McWhorter	Athens, Ga.
Byron B. Bower, Jr.	Bainbridge, Ga.

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First District,	Joseph W. Smith	Manassas, Ga.
Second District,	S. B. Brown	Albany, Ga.
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Fourth District,	A. A. Carson	Columbus, Ga.
Fifth District,	J. R. Smith	Atlanta, Ga.
Sixth District,	Dr. J. C. Beauchamp	Williamson, Ga.
Seventh District,	E. S. Griffeth	Buchanan, Ga.
Eighth District,	E. A. Copelan	Greensboro, Ga.
Ninth District,	L. M. Brand	Lawrenceville, Ga.
Tenth District,	Lawton B. Evans	Augusta, Ga.
Eleventh District,	Charles Lane	Helena, Ga.

STANDING COMMITTEES.

Prudential—Brittain, Morton, Barrow, McWhorter, Bondurant.

Salaries—Carson, Beauchamp, Brand, Hogan, Evans, Brown.

Teachers and Course of Study—Collum, Barrow, Lane, Brittain, Bacon, Evans.

Finance—Brand, Brown, Carson, Copelan, Bower, J. R. Smith.

Grounds and Buildings—Bondurant, Barrow, Morton, J. W. Smith, Griffeth.

The President of the Board of Trustees is a member of all Standing Committees, and the President of the School is a consulting member of the same.

CALENDAR, 1913-14.

1913.

Sept. 9, Tuesday—School Dormitories open.
Sept. 9, Tuesday—Classification of Students.
Sept. 10, Wednesday—Classification of Students.
Sept. 11, Thursday—Fall Term begins at 9 A. M.
Dec. 18, Thursday—Christmas Holidays begin.

1914.

Jan. 5, Monday—Re-opening of School.
Jan. 26-Feb. 2—Mid-session examinations.
Apr. 17, Friday—Founder's Day.
Jun. 5, Friday—Annual Meeting of Board of Trustees at 3:30 P. M.
Jun. 5, Friday—Annual Concert at 8:30 P. M.
Jun. 6, Saturday—Alumni-ae Reunion at 12 Noon.
Jun. 6, Saturday—Faculty Reception to Alumni-ae at 6 P. M.
Jun. 7, Sunday—Commencement Sermon at 11 A. M.
Jun. 8, Monday—Graduating Exercises at 8 P. M.

New students may enter at any time during the year, but it is best for them to enter September 9, or January 5.

Prospective students will need to apply well in advance of their coming in order to be sure of places in the dormitories. The School can accommodate only 400 boarding students at present.

FACULTY AND OFFICERS.

DAVID C. BARROW, LL.D., (Chancellor of the University of Georgia). Chancellor Ex-officio.

JERE M. POUND, A.B., President.

ALEXANDER RHODES, Dean.

MISS FANNIE H. SCOTT, Registrar.

MISS PANSY, B. NEWTON, Stepographer.

J. C. WARDLAW, A.M., Psychology and Pedagogy; Director of Elementary Training School.

PETER F. BROWN, A.M., English.

MRS. GERTRUDE A. ALEXANDER, A.M., Expression; Assistant in English.

T. E. HOLLINGSWORTH, A.B., Mathematics.

DAVID L. EARNEST, A.M., Elementary Science.

EUGENE C. BRANSON, A.M., Rural Economics.

MISS ROBERTA HODGSON, A.M., History.

FREDERICK A. MERRILL, B.Sc., Geography and Nature Study.

E. SCOTT SELL, B.S.A., Agriculture.

MISS IDA A. YOUNG, L.I., Latin.

MISS HELEN L. SPROUT, German and Greek; Director of Correspondence Department.

JOSEPH LUSTRAT, Bach ès Lett., French and Spanish.

MISS EDNA M. RANDALL, Domestic Arts and Science.

MISS ANNIE LINTON, Manual Arts.

MISS LURA B. STRONG, Physical Education.

MISS GERTRUDE ELIZABETH WOOD, Music.

MISS SARA M. WEBB, Assistant in Department of Psychology and Pedagogy.

MISS CHLOE LOYD, Assistant in Department of English.

MISS ANNIE MATHEWS, Assistant in Department of Mathematics.

MISS CHLOE E. ALLEN, Assistant in Department of Elementary Science.

MISS JESSIE L. REDD, Assistant in Departments of History and Geography.

ALEXANDER RHODES, Assistant in Department of Agriculture.

MISS PARNA B. HILL, Assistant in Department of Domestic Arts and Science.

MISS REBECCA STEWART, Assistant in Department of Domestic Arts and Science.

MISS MAUDE C. TOWNSEND, A.B., Assistant in Department of Manual Arts.

MISS TEXAS HENDERSON, Student-assistant in Department of Physical Culture.

MISS BESSIE M. HARDY, Assistant in Department of Music.
MRS. AGNES EBERHART, Assistant in Department of Music.
MRS. BRUCE CARRIER, Assistant in Department of Music.
MISS JULIA McARTHUR, Assistant in Department of Music.
MRS. MARY LEE DAVIS, Assistant in Department of Music.
MISS KATE E. HICKS, Principal Elementary Training School.
MISS MARJORIE FORD, Critic Teacher Seventh and Eighth Grades.
MISS IRIS CALLAWAY, Critic Teacher Fifth and Sixth Grades.
MISS ELIZABETH YOUNG, Critic Teacher Third and Fourth Grades.
MISS MARY WOODS, Critic Teacher Second Grade.
MISS IVAH MOYER, Critic Teacher First Grade.
MISS LURA ELDER, Teacher of Rural School.
MISS AGNES GOSS, Librarian.
MISS MARGARET M. GIBBS, Assistant Librarian.
MISS NELLIE COLBERT, Matron Winnie Davis Hall.
MISS KATE HICKS, Matron Senior Hall.
MISS CHLOE ALLEN, Matron Bradwell Hall.
MISS BESSIE M. HARDY, Matron Gilmer Hall.
MISS EMMIE JONES, Bookkeeper.
MISS WILLIE FAGAN, Y. W. C. A. Secretary.
MRS. B. H. KINNEBREW, Housekeeper.

FACULTY COMMITTEES, 1912-13.

Library: Branson, Goss, Hicks, Merrill, Sprout, Brown, Hodgson.

Calendar and Entertainments: Linton, Wood, Fagan, Alexander, Rhodes.

Schedule: Alexander, Loyd, Wardlaw, Hollingsworth, Sell.

Faculty Meetings: Earnest, Hollingsworth, Merrill, Hodgson, Linton.

Promotion and Publicity: Merrill, Alexander, Sell, Rhodes, Branson.

Curriculum: Brown, Wardlaw, Hollingsworth, Young, Alexander.

Publication: Merrill, Brown, Earnest, Sell, Branson.

University Representative: Alexander, Brown, Loyd, Hicks, Earnest, Hodgson.

School Organization: Wardlaw, Loyd, Wood, Sell, Earnest, Young, Fagan.

Classification: Hollingsworth, Brown, Merrill, Wardlaw, Sell.

Alumni-ae: Loyd, Hicks, Allen, Redd, Elizabeth Young, Mathews, Hill, Webb, Callaway, Ford.

Welfare: Rhodes, Broadus, Fagan, Strong, Randall, Young, and Matrons.

Grounds and Buildings: Rhodes, Sell, Linton.

Employment: Earnest, Hicks, Wardlaw, Alexander, Scott.

EXPENSES.

Terms for Board.

(Payable in advance as indicated.)

September 11, 1912	—First Payment	$ 25.00
November 13, 1913	—Second Payment	25.00
February 2, 1914	—Third Payment	25.00
April 6, 1914	—Fourth Payment	25.00
		$100.00
Matriculation Fee (to be paid on entrance)		$ 10.00

Board for students who do not make the full quarterly payments, as indicated above, will be at the rate of $3.00 per week, or 50 cents per day.

Students who cannot enter at the regular dates will be received at any time during the session just as their opportunities may permit, board being charged only from the time of entering school.

All students entering before September 15 will be charged from date of opening (Sept. 11.) Those entering on and after September 15 will be charged from the date they enter school.

All non-resident students must room and board in the school dormitories. No exception will be made to this except by the consent and approval of the school authorities.

There is no tuition paid by Georgia students. Students from outside the state are required to pay $40.00 per year, $20.00 upon entrance, and $20.00 at the beginning of the second semester.

Money deposited on dormitory account will not be refunded. Money deposited on personal account may be withdrawn at any time.

Parents and friends visiting students cannot be accommodated in the dormitories, as there is no room for them. They can secure board in the city.

COLLEGE BOOK STORE.

The school authorities buy, at the regular dealers' discount, all books, stationery, etc., needed by the students. These are sold to the student at less than the regular retail rates, and thus a considerable sum of money may be saved in the purchase of text-books.

UNIFORMS.

To promote economy, simplicity, and good taste in dress, every young woman in the school, unless specially excused by the President, is required to purchase and wear the uniform adopted by the school. Requests to be excused from wearing the uniform will not be considered except for very exceptional and unusual reasons.

The winter uniform consists of a blue serge suit, blue felt hat, white waist of wash material with high collar and long sleeves, tan gloves, and black shoes. The suit, hat, and gloves must be bought in Athens, and the order for them must be placed before the end of the first week after arrival at the school. The cost of these three articles will not exceed $16.00. All other necessities should be provided before leaving home.

The summer uniform consists of white waists (as described for winter uniform) two white wash skirts, tan straw hat, and black shoes. The skirts and hat must be bought in Athens, costing about $6.00.

The above requirements will be rigidly enforced. There must be no attempt at evasion or partial violation of these regulations. No other articles, however similar, can be substituted for those specified.

THE INFIRMARY.

Miss Ila Broadus, trained nurse, in charge.

This is a small building of four rooms. It has bathrooms, lavatories, toilets, electric lights, hot and cold water, and a gas range. The furnishings are entirely comfortable. It is a cosy, quiet retreat for students who from time to time may need such quiet. The Infirmary is in charge of a trained nurse, most of whose time is spent, not in looking after students who are sick, but in caring for them to see that they do not get sick. With the matrons, she takes general oversight and care of the entire student body. The nurse will also give lectures on home nursing, hygiene, and sanitation to certain classes during the year. The health of the student body has always been superb.

NEW CARNEGIE LIBRARY.

This beautiful $25,000 building, the generous gift of Mr. Andrew Carnegie, was planned by Messrs. Peabody and Ludlow, and built by Moise deLeon. The handsome library furniture is substantial as well as beautiful, and is in perfect harmony with the elegance of the building.

Although occupied but three years, the library has awakened new interest and has shown a marvelous growth, the circulation each year almost doubling that of the previous year. The library consists of 8,045 volumes, more than a thousand new books having been added during each of the past three years.

One of the great purposes of the library is to create in the students an interest in good literature, and to encourage a desire for reading. Nearly all the studies in a Normal School require reference work, and much supplementary material is needed in preparing lesson plans in history, geography, and other studies. New books selected by the departments are added each year to meet these needs. Periodical literature is also of great value in reference work, and the library subscribes to a number of judiciously selected magazines, which are bound as the volumes are completed, and with their indexes are of invaluable aid in supplying materials for debates and other reference work.

The library is in charge of a trained librarian and cataloguer, and the books are catalogued according to the most approved library system.

DEPARTMENT OF CORRESPONDENCE.

MISS HELEN L. SPROUT, teacher in charge.

Teaching by mail is becoming more popular every day, and the facilities have now been so perfected that there is no method of study which equals that of the correspondence plan for giving depth of scholarship and accurate knowledge of the subject studied. The State Normal School has so arranged its courses of study that all correspondence students will secure full credit for the work which they do at home should they decide eventually to attend the Normal School at Athens.

These courses are prepared by the heads of departments who are specialists in these branches. Directions as to text-books and lessons, and lists of review questions, will be sent the student. When the student writes out the answers to these questions and sends in her papers, these will be corrected and graded and again returned to the students. Credit will be entered upon the records of the State Normal School for the work done, and this credit will help the students, who can come to the school later and take resident work, to obtain the diploma offered by this institution.

The charges for the courses are as follows:

Common School Review Course.

Arithmetic	$5.00
Grammar	5.00
History	5.00
Physiology	5.00
Geography	5.00
Agriculture	5.00
Reading	5.00
Spelling	5.00

General Culture Courses.

Algebra	$6.00
Geometry	6.00
Latin	6.00
Rhetoric	6.00
Literature	6.00
English History	6.00
Ancient History	6.00
Civil Government	6.00

General Pedagogical Courses.

Dutton's "School Management," and Georgia School Law	$5.00
A General Course on Primary Methods	5.00

Other courses in way of preparation.

For full particulars in regard to any of these Courses of Study, address JERE M. POUND, President, State Normal School, Athens, Georgia.

GRADUATE STUDENTS.

The following schools are this year represented by graduates in the student body of the State Normal School: Banks-Stephens Institute, Butler Male and Female College, Florida Normal College, Gordon Institute, Glynn Academy, Georgia Normal College & Business Institute, John Means Institute, Knoxville Summer School, Lucy Cobb Institute, Luthersville Institute, Muscogee Elementary School, Martin Institute, Miss Hanna's School, McPhail Institute, Perry Rainey Institute, Presbyterial Institute, Reinhardt College, Samuel Benedict Memorial School, Seventh District Agricultural School, South Atlantic Institute, St. Vincent's Academy, Statesboro Institute, Third District Agricultural School, Tugalo Institute, Tenth District Agricultural School, Eleventh District Agricultural School; and the High Schools of Adrian, Acworth, Albany, Americus, Ararat, Arlington, Armuchee, Athens, Bronwood, Buford, Cataula, Chattahoochee, Climax, Cochran, Comer, Conyers, Columbus, Crawford, Dublin, Eatonton, Fayetteville, Fitzgerald, Fort Gaines, Gainesville, Girard, Greensboro, Gresham, Griffin, Hepzibah, Hoschton, Hartwell, Jesup, LaGrange, Lawrenceville, Livingston, Loganville, Lumber City, Madison, Marshallville, Maysville, McDonough, Monroe, Monticello, Oconee, Perry, Pinehurst, Quitman, Reynolds, Rome, Rutledge, Sandersville, Salem, Savannah, Sparta, Statham, Sylvania, Thomasville, Thornwell, Tifton, Unadilla, Villa Rica, Waycross, Washington, Wesley Chapel, Whigham, Winder, Winterville, Woodbury, Wynnton, Estherville (Iowa), Sumter (S. C.)

STATISTICS FOR 1912-1913.

Students registered to date (March 25, 1913) 559; pupils in Muscogee Elementary School and Country School, 181; total, 740; applicants turned away for lack of room, 125; teachers and officers, 48; counties represented by students, 111; students holding diplomas from other schools, 181; students holding first-grade license, 61; second-grade license, 83; third-grade license, 38; students having experience in teaching, 143; students who earned the money they spend here, 123. Nearly fifty per cent of all our students are the sons and daughters of farmers. Calls on us for teachers, 1912-1913, 138. Total registration since the founding of the school, 10,557, more than ninety per cent of whom have since taught in our common schools. Total graduates to June, 1912, 679. Graduating class this year numbers 78.

Buildings: Academic buildings, 3; Dormitory buildings, 3; Dining Hall and Senior Hall buildings, 1; Carnegie Library, 1; Infirmary, 1; dairy barn, 1. Total 10.

THE COURSE OF STUDY.

The subjects bracketed in each class are electives, one of which the student must choose. After the minimum number of periods required has thus been made up, the student is at liberty to choose as options, up to the maximum number of periods allowed, others of these elective studies, subjects of the same class in the parallel course, or subjects in lower classes in either course, where the schedule will permit, it being understood that the maximum shall include all regular work, conditions, deficiencies, etc., except instrumental music.

While due attention is given in all instruction to the acquisition by the student of accurate knowledge of subject-matter, all work will be presented as by teachers to teachers, on the assumption that the student will ultimately teach the subject.

Students desiring courses providing reviews in common school branches in preparation for the state teachers' examination will find their needs fully met in the Review Class and in the elective and optional subjects offered in the several classes of both courses.

Students whose time is limited and whose scholarship is irregular may choose one of the departmental certificate courses offered, wtih the advice of the head of the department concerned and the approval of the President.

COURSES OF STUDY.

REVIEW.

These courses are substitutes for the old Half-Year Review and One Year Review Courses.

Applicants for them must have license to teach, present written evidence in the form of certificates from their last instructors, or show in examination that they have satisfactorily completed at least the equivalent of eight scholastic years of study. These courses are intended to prepare applicants for the state teachers' examination or for advanced work in this school. Applicants should choose one of the two courses under the advice of instructors here.

Academic.		**Industrial.**	
English	4	English	4
History	4	History	4
Algebra	5	Agriculture	2
Arithmetic or Latin	4	Arithmetic	4
Physiology or Nature Study or Economic Geography	3	Physiology or Nature Study or Common School Geography	3
Physical Culture	2	Physical Culture	2
		Options	3
	22		22
Maximum	28	Maximum	28

Optional: Common School Music (1). After the minimum of work required in the class has been arranged, optional studies, up to the maximum allowed, may be selected from the other Review Course.

FRESHMAN.

Applicants for this class must present written evidence in the form of certificates of the satisfactory completion of at least the equivalent of nine grades in the common schools and accredited high schools or stand an examination on one of the courses required in the Review Class.

Academic.	
English	4
History	3
Plane Geometry	5
Physiography	2
Physics or Biology or (1 Lab.) Latin	4
Physical Culture	2
	20
Maximum	26

Industrial.	
English	4
History or Mathematics	3
Elem. Drawing (2 Lab.)	4
Handicrafts (1 Lab.)	2
Physics or Biology (1 Lab.)	4
Model and Plain Sewing, (1 Lab.)	4
Agricul. Botany	2
Physical Culture	2
	24
Maximum	30

Optional: Common School Music (1). After the minimum of work required in the class has been arranged, optional studies, up to the maximum allowed, may be selected from the Freshman course not chosen or from either of the Review classes.

SOPHOMORE.

Applicants for this class must present written evidence in the form of certificates of the satisfactory completion of at least the equivalent of ten grades in the common schools and accredited high schools or stand an examination on one of the courses required in the Freshman class.

Academic.	
English	4
Algebra and Geometry	5
History	2
Chemistry or Biology or (1 Lab.) Latin	4
Psychology	3
Physical Culture	2
	20
Maximum	26

Industrial.	
English	3
Mathematics	2
Elem. Arts and Crafts Drawing and Color (4 Lab.)	8
Cooking Theory of Foods (2 Lab.)	6
Field Crops and Soils (1 Lab.)	4
Chemistry	4
Psychology	3
Physical Culture	2
	26
Maximum	30

Optional: Common School Music (1). After the minimum of work required in the class has been arranged, optional studies, up to the maximum allowed, may be selected from the Sophomore course not chosen or from any lower class.

JUNIOR.

Applicants for this class must present written evidence in the form of certificates of the satisfactory completion of at least the equivalent of eleven grades in the common schools and accredited high schools or stand an examination on one of the courses required in the Sophomore class.

Academic.	
English	3
Economics	2
History of Education and Principles of Education	4
Methods	4
History or Mathematics or Latin or French or German or Spanish or Greek	2
Expression	4
Common School Music	2
Child Study	2
Physical Culture	2
	23
Maximum	29

Industrial.		
Mech. Drawing, Woodwork, Design	Man. Arts	5
Adv. Drawing and Colors	Man. Arts	5
Dressmaking	Dom. Sci.	4
Textile and Household Man.	Dom. Sci.	3
Millinery and Art Needle work	Dom. Sci.	4
Horticulture	Agric.	2
Animal Husbandry		3
Methods	Req'd	2
Hist. and Princ. of Ed.		4
Physical Culture		2
		24
Maximum		30

Optional: After the minimum of work required in the class has been arranged, optional studies, up to the maximum allowed, may be selected from the Junior course not chosen or from any lower class.

SENIOR.

Applicants for this class must present written evidence in the form of certificates of the satisfactory completion of at least the equivalent of twelve grades in the common schools and accredited high schools or one year in some reputable college or stand an examination in one of the courses required in the Junior class.

Academic.	
English	2
Expression	4
Mathematics or History or Latin or French or German or Spanish or Greek	2
Sociology	2
Methods and School Management	3
Practice Teaching	4
Conference	1
Common School Music	2
Physical Culture	2
	22
Maximum	28

Industrial.		
Mech. Drawing and Woodwork	Man. Arts	6
Adv. Drawing and Color	Man. Arts	4
Theory and History of Design	Man. Arts	4
Adv. Cooking and Serving	Dom. Science	4
Household Chem. and Bacteriology	Dom. Sci.	4
Organization and Management and Dietetics	Dom. Sci.	3
Home Nursing	Dom. Sci.	2
Farm Management	Agricult.	2
Agricultural Edu.		2
Plant Breeding		2
Sociology	Required	2
Practice Teaching		4
Conference		1
Physical Culture		2
		24
Maximum		30

Optional: After the minimum of work required in the class has been arranged, optional studies, up to the maximum allowed, may be selected from the Senior course not chosen or from any lower class.

GEORGIA
INDUSTRIAL COLLEGE

(FOR COLORED YOUTHS)

SAVANNAH, GA.

GEORGIA STATE INDUSTRIAL SCHOOL FOR COLORED YOUTHS.

A BRIEF HISTORICAL STATEMENT.

By an Act of the Georgia Legislature, approved November 26, 1890, it was enacted that there should be "established in connection with the State Universtiy, and forming one of the departments thereof, a school for the education and training of colored students." By the same Act the Governor was empowered to appoint "five fit and discreet persons, residents of the State, to be known as the Commission on the School for Colored Students." This Commission was to secure the grounds and the buildings necessary for the establishment of the school; to prescribe a course of training to be provided for all the students in said school which would embrace the studies required by the Act of Congress of the United States, approved July 2, 1862, and August 30, 1890, making donations of public lands and the proceeds thereof to the States and Territories for educational purposes.

The control and management of the school were vested in the Board of Trustees of the University of Georgia. As soon as the school was located, established and turned over to the Board of Trustees of the University of Georgia, the Commission named in the Act appointed by the Governor was to constitute the local Board of Trustees for the school, with perpetual succession, should be charged with the control, supervision and management of the school, subject to the general Board of Trustees of the University of Georgia. The Chairman of said local Board of Trustees is made ex-officio member of the Board of Trustees of the University.

In the Summer of 1891, from June 1 to August 1, by direction of the Commission, Chancellor Boggs inaugurated in Baxter Street school building at Athens, Ga., a preliminary session of the school which was conducted by Mr. Richard R. Wright as principal, with three other instructors.

Later, this school was styled by the Commission "The Georgia State Industrial College for Colored Youths," and located near Savannah, Ga., about five miles from the Court House, southeast of the city, near Thunderbolt. For the permanent organization, the Commission selected a faculty consisting of a President, Instructor in English, Instructor in Mathematics, Instructor in Natural Science, Superintendent of the Mechanical Department, and Foreman of the Farm.

The school began with an enrollment of eight students. At present it has a large enrollment. The instruction may be said to be literary, mechanical and agricultural. Under mechanical there are Blacksmithing, Carpentry, Shoemaking, Wheelwrighting, Tailoring, Painting, Brickmasonry, Plastering, Dressmaking and Cooking. The aim is to give the students such training as will prepare them to be useful citizens. The students of the Mechanical Department are required to do all the repair work and to assist in doing other work.

The courses are open to both sexes, but as there is no dormitory for girls they are admitted only as day pupils. Since the organization of the school it has had more than 6,000 different students under its instruction, and has given its diplomas to 231 graduates and 325 have received certificates of proficiency from the trades departments. A list of the graduates is kept, and it is known that they are all usefully employed.

The College owns eighty-six acres of land; thirty-five acres are used for the campus, and fifty one acres for a farm. All the departments are fairly well provided with much of the necessary equipment for their work. There are the following buildings: Two school recitation buildings, three trades buildings, two farm buildings, two dormitories and five professors' cottages.

The College Library consists of a small collection of books, which is being added to as funds permit.

The College farm of fifty-one acres is practically adjacent to the College campus. All of this is under cultivation, and from it sufficient vegetables are raised by the labor of the students to supply the tables of the boarding department.

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D. C. SUGGS, A.M., Ph.D., Vice-President; Instructor in Natural Science.

J. G. LEMON, A.M., Instructor in Mathematics.

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*Deceased.

S. A. GRANT, A.B., Instructor in English and Pedagogy; Registrar of the College.

HENRY PEARSON, A.M., Assistant Instructor in English, Secretary of the Faculty.

L. B. THOMPSON, A.M., Superintendent Mechanical Department and Assistant Instructor in Mathematics.

R. H. THOMAS, Superintendent of Farm.

INSTRUCTORS IN TRADES.

L. B. THOMPSON, A.M., Masonry and Plastering.
J. M. ROSTON, Wheelwright, Proctor.
J. H. HAZEL, Painting, Glazing, Sign-Painting and Kalsomining.
G. A. HOLLOWAY, Shoe and Harness-Making.
P. S. MOORE, Blacksmithing.
R. M. COOPER, Tailoring.
E. M. WILSON, Carpentry and Mechanical Drawing.
MRS. W. G. HILL, Domestic Science.
MRS. W. C. McLESTER, Plain Sewing and Dress Making.
J. S. FRAZIER, Instructor in Dairying.
D. W. SIMMONS, Assistant Instructor in Masonry and Plastering.
MISS MARIA JACKSON, Matron.
MRS. D. E. PEARSON, Principal of Model School.

Besides doing first-class work in the industrial lines, giving in an elementary way ten handicrafts, the College gives as good literary education as can be obtained in the majority of secondary institutions for higher education of the Negro. The main object, however, is to give practical education, that is, to fit the boys and girls to begin creditably the active business of life—boys, as carpenters, blacksmiths, bricklayers, etc.; girls as seamstresses, cooks, laundresses, etc.

Persons admitted to this school therefore will be expected to work. The lazy, sickly, or the "dudish" are not desired, and will not find it comfortable at the Georgia State Industrial College. On the other hand, all who are in earnest will find this one of the most desirable colleges in the State. Industrious and faithful students have been able to earn a part of their board bill by extra work. A great many of our students are from the country and an effort is made to encourage them along agricultural lines. There is a Farmers' Association organized among them for the purpose of learning about farming and fostering the agricultural spirit. A vast amount of information was obtained last year by the Association about colored farmers. The College farm under a competent instructor is a great aid to those who are eager to know farming. During the ensuing year greater stress than ever will be laid upon the mechanical trades and upon agriculture. While the literary work will not be neglected or less efficiently done, more time and energy will be devoted to the industrial side of education.

There wlil be no charges for tuition and room rent. Students will be required to bring or purchase their sheets, quilts or blankets and pillow cases. The entire charge for board and washing will be only $5.75 per month if paid in advance, otherwise $6.00; but no student will be allowed to remain at the school who is in arrears with the boarding department over a month.

While there has been but little severe sickness at the College, as a wise precaution it has been decided to require each student to deposit with the President fifty cents for ordinary medicines. In case of serious illness, requiring the service of a physician, expenses will be borne by the student.

COLLEGE.

The Georgia State Industrial College is a State Institution, the only one of its kind in Georgia, for colored youths. The grounds contain about eighty-six acres, consisting of thirty-five acres in the campus and fifty-one acres in the College farm. The campus, shaded by tall live oaks, festooned by pretty pendant moss is, for natural scenery, the most attractive in the State. The location is perfectly healthful.

The College is about five miles from the City of Savannah and is reached by the Thunderbolt street car line. The College farm is separated from the campus only by the street car line by which passengers are carried from the city to our grounds.

ADMISSION.

The courses at present established are the Agricultural, Industrial, Preparatory, Normal and Collegiate.

For admission into the college the applicant should be of good moral character and not less than fourteen years of age. All students, except those bringing certificates from accredited schools, shall be required to pass an entrance examination.

Students should make it a point to be present on the opening day of the College. For special reasons students may be admitted at any time of the school year.

THE SOUTH GEORGIA STATE NORMAL COLLEGE

VALDOSTA, GA.

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MARY ALICE JONES, Training Teacher Third and Fourth Grades.
MARGARET S. WRAY, Training Teacher Fifth and Sixth Grades.
MRS. CECILY F. KNAPP, Matron and Housekeeper.
W. P. YARBROUGH, Secretary and Bookkeeper.

GENERAL INFORMATION.

HISTORICAL.

The College was established by a special Act of the Legislature in the summer of 1906, but no appropriation was made for buildings or maintenance until the summer of 1911. At that time the State appropriated $3,000 for a building and equipment.

The City of Valdosta gave a campus of sixty acres of land, which (with the sewerage and water system provided at a cost of about $25,000 to the city) is worth about $70,000, and $50,000 in money, payable in installments of $5,000 a year for ten years. Later, the city made $25,000 of its cash bounty available at once, and the first building was erected and furnished at a cost of $55,000.

So the College was housed and made ready to open in January, 1913. An appropriation of $25,000 a year for maintenance was granted by the Legislature in 1912, and the life of the institution was assured. The College opened for work on January 2, 1913.

NATURE AND FUNCTION.

The conditions of the establishment of the College indicate its nature and function. As the bill was originally prepared, it provided for an institution of higher learning with normal and industrial courses. Later the bill was amended so as specifically to permit the teaching of agriculture (this subject then coming into prominence), and so to make the charter complete. As the bill passed, the institution was given complete liberty to develop in any way that seems best to the Board of Trustees.

At the first meeting of the Board after the school was financed, it was decided that the best interests of the State could be served by restricting the institution, for the present at least, to the higher education of young women. The College is therefore an institution of collegiate rank, providing both general and special training for the young women of the State.

There is a wide range of election allowed to students, and it is possible to plan courses to meet the needs of many different tastes and abilities. All that the College insists upon is that the work be elected along some definite plan, and that it be thoroughly done. Those who expect to teach are required to take professional normal work.

In grade, the school extends about two or three years above schools of the rank of our best accredited High Schools. Graduates of accredited schools of Group A are admitted to the Junior year without examination (though with conditions in one or two required subjects), and students from other groups of accredited schools are graded accordingly. Graduates from most accredited schools enter the Sophomore class. All other students are admitted on examination and previous records.

As to course of study, the work is broad and thorough. Besides the professional work necessary to the training of teachers, there is thorough and vital training in the usual academic studies and the subjects pertaining to home activities and arts.

LOCATION.

The school is situated in Valdosta, at one of the most easily accessible points in South Georgia. The campus of sixty acres faces 2,100 feet on Patterson street, the principal residence street of the city, and occupies a gently sloping hillside, which gives perfect drainage and affords an ideal school site. At the foot of the hill a small stream flows through a natural park of handsome trees, and at the top of the hill is a beautiful growth of virign pines. The school has a campus of exceptional natural beauty.

ARCHITECTURE.

Before the first brick was laid a plan was made for all reasonable future development of the school, and prospective buildings were given their style and position once for all. The general style of architecture is a form of Spanish mission, equally charming for its beauty and for its appropriateness to the climate and landscape.

The first building erected is a combination dormitory and administration building. Eventually it will be used entirely as a dormitory. This imposing structure is in the shape of an L, measuring 275 feet on one side and 125 feet on the other. Its great expanse of light walls with their abundant and well spaced window openings, its massive roof of rich, red tile, its open terrace and charming porch, all give great beauty and comfort.

In conformity with the style of architecture and with the demands of the health of students, the building is only two stories high, thus preventing the injury from climbing of stairs, and rendering every one doubly safe in case of fire. As a further comfort and protection against fire there are three ample stairways inside the building and one outdoor stair. There is also a fire main with ample hose on each floor. The rooms are all well ventilated. There is running water, hot and cold, in every room. Ample toilet and bath facilities are conveniently placed. The furniture, though simple, is neat and specially adapted to dormitory purposes. In short, the building is planned on most modern principles, by an architect of very wide and successful experience in school and dormitory building. It is sincerely believed that there is not a better building of its kind in the South.

HEALTH AND SANITATION.

Every precaution is taken to make safe the health of students. The city of Valdosta enjoys an enviable reputation for health. The fall and winter climate (when the school is in session) is ideal. The school is abundantly supplied with absolutely pure artesian water, hot and cold. The sewerage system is the best.

As a precaution against malaria and typhoid, all windows in sleeping rooms, dining room and kitchen are screened against mosquitoes and flies. As a further precaution against typhoid, the school produces its own milk in a perfectly sanitary dairy. Vegetables and eggs are produced on the grounds and are always fresh.

CONDITIONS OF ADMISSION TO THE COLLEGE.

Students are admitted to the College (a) on certificate from accredited schools, (b) on examination.

(a) Graduates of high schools of Group A (four-year high schools) are admitted to the Junior class, with conditions in Household Economics and Art, unless these subjects have been studied in the high school course. Graduates of three-year acceredited high schools are admitted to Sophomore year, subject to conditions.

(b) Students who do not present high school certificates are admitted on examination in connection with records of study, teaching, etc.

Students who apply for admission on certificates must actually present the certificate signed by the Principal or Superintendent of the high school from which she comes. This should be done if possible by mail before the student comes to Valdosta.

THE UNIFORM.

All students are required to wear the uniform.

The uniform adopted is neat, tasteful, hygienic, comfortable and economical. As all students dress alike, there are no distinctions among students on the artificial basis of clothes, and there is no temptation to large expenditures in a rivalry to outdress one another. In selecting the style and material of the uniform, consideration has been given to the climate and to the fact that people work better when they are dressed comfortably.

For further information, address

R. H. POWELL, President,
Valdosta, Ga.